STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

APPLICATION FOR PERMIT TO DRILL

5. MINERAL LEASE NO: ML-22651	6. SURFACE: State
1A. TYPE OF WORK: DRILL ☑ REENTER ☐ DEEPEN ☐	7. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
B. TYPE OF WELL: OIL ☐ GAS ☑ OTHER _____ SINGLE ZONE ☑ MULTIPLE ZONE ☐	8. UNIT or CA AGREEMENT NAME: Natural Buttes Unit
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore, LP	9. WELL NAME and NUMBER: NBU 1022-02D
3. ADDRESS OF OPERATOR: 1099 18th Street #1200 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (720) 929-6226	10. FIELD AND POOL, OR WILDCAT: Natural Buttes Field
4. LOCATION OF WELL (FOOTAGES) 635557X 4426776Y 39.982181 AT SURFACE: 1090' FNL & 990' FWL LAT 39.982267 LON -109.413150 AT PROPOSED PRODUCING ZONE: N/A -109.412426	11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 2 10S 22E
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 25 Miles Notheast of Ouray, Utah	12. COUNTY: Uintah / 13. STATE: UTAH

15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET)	16. NUMBER OF ACRES IN LEASE:	17. NUMBER OF ACRES ASSIGNED TO THIS WELL:
990'	620.25	40
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET)	**19. PROPOSED DEPTH:**	**20. BOND DESCRIPTION:**
1500'	8,570	RLB0005237
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.):	**22. APPROXIMATE DATE WORK WILL START:**	**23. ESTIMATED DURATION:**
4975 GR		10 Days

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
14"		40	Premium Cement	215 sx	1.18	15.6
			Premium Cement	100 sx	1.18	15.6
12 1/4"	9 5/8" J-55 36#	2,200	Premium Cement	230 sx	3.82	11
			Premium Cement	180 sx	1.18	15.6
7 7/8"	4 1/2" I-80 11.6#	8,570	Premium Lite II	400 sx	3.38	11
			50/50 Poz/G	1370 sx	1.31	14.3

25. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
☐ EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
☑ COMPLETE DRILLING PLAN
☐ FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Kevin McIntyre TITLE Regulatory Analyst

SIGNATURE _____ DATE 2/22/2008

(This space for State use only)

Approved by the
Utah Division of
Oil, Gas and Mining

RECEIVED
FEB 26 2008
DIV. OF OIL, GAS & MINING

API NUMBER ASSIGNED: 43-047-39955

APPROVAL:

Date: 11-04-08

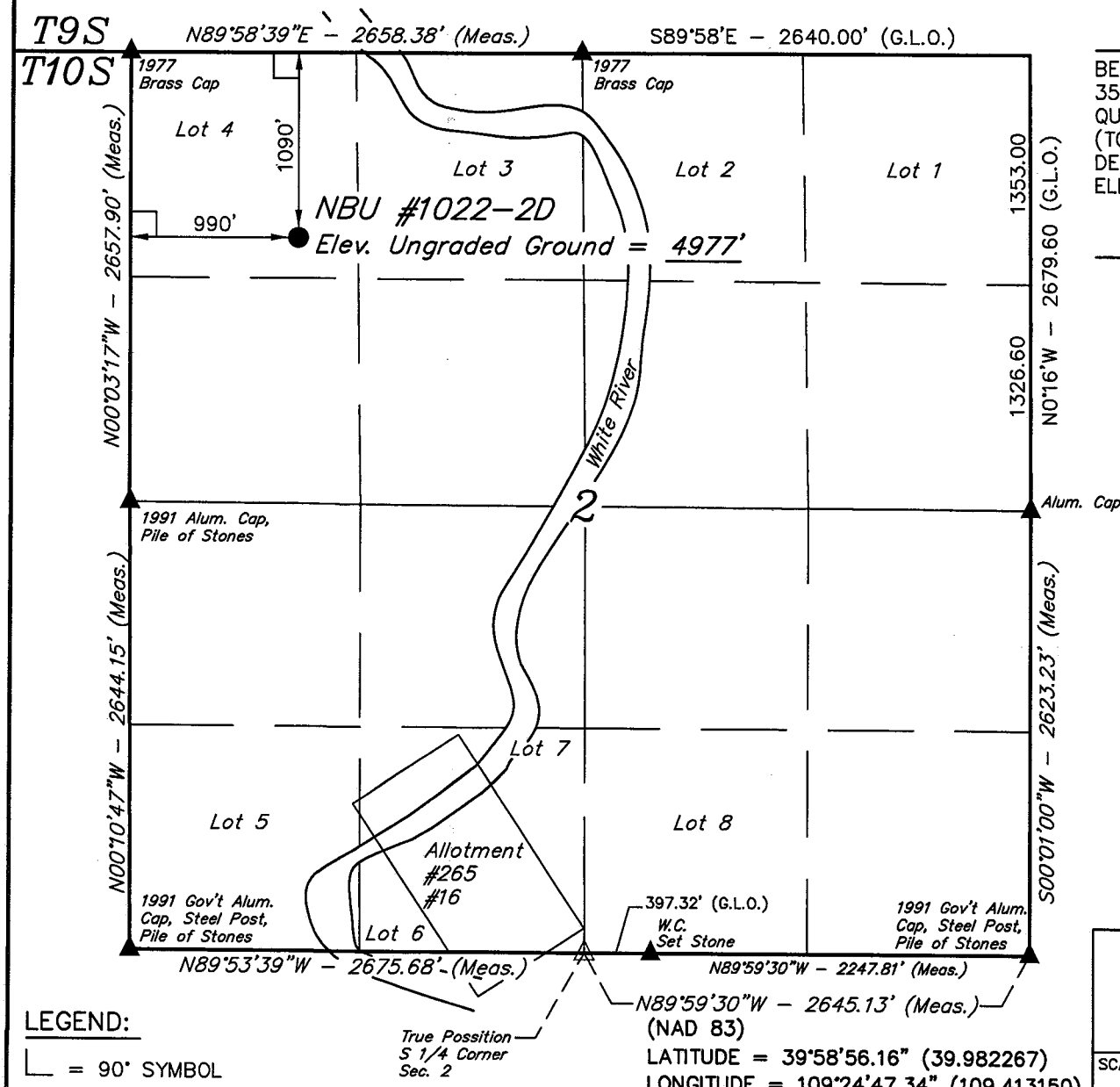
By: _____

(See Instructions on Reverse Side)

(11/2001)

Kerr-McGee Oil & Gas Onshore LP

Well location, NBU #1022-2D, located as shown in NW 1/4 NW 1/4 of Section 2, T10S, R22E, S.L.B.&M., Uintah County, Utah.

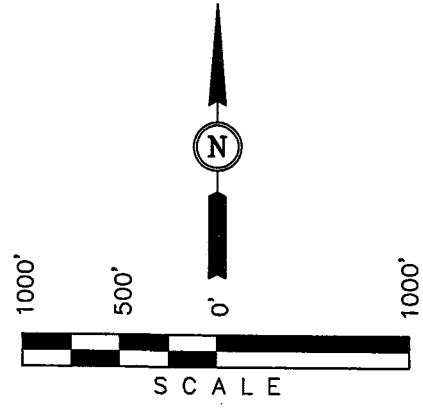


BASIS OF ELEVATION

BENCH MARK (20EAM) LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH
ROBERT L. KAY
STATE OF UTAH

LEGEND:

- └ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

(NAD 83)
LATITUDE = 39°58'56.16" (39.982267)
LONGITUDE = 109°24'47.34" (109.413150)
(NAD 27)
LATITUDE = 39°58'56.28" (39.982300)
LONGITUDE = 109°24'44.88" (109.412467)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789-1017

SCALE: 1" = 1000'	DATE SURVEYED: 01-04-08	DATE DRAWN: 01-07-08
PARTY: A.F. T.M. C.C.	REFERENCES: G.L.O. PLAT	
WEATHER: COLD	FILE: Kerr-McGee Oil & Gas Onshore LP	

NBU 1022-02D
NWNW Sec. 2, T10S,R22E
UINTAH COUNTY, UTAH
ML-22651

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. **Estimated Tops of Important Geologic Markers:**

Formation	Depth
Uinta	0- Surface
Green River	1087'
Wasatch	4198'
Mesaverde	6555'
TD	8570'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

Substance	Formation	Depth
Water	Bird's Nest	
	Green River	1087'
	Mahogany	1736'
Gas	Wasatch	4198'
Gas	Mesaverde	6555'
Other Minerals	N/A	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program.

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program.

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 8570' TD, approximately equals ~~3239~~ 5313 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 1885 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.

10. Other Information:

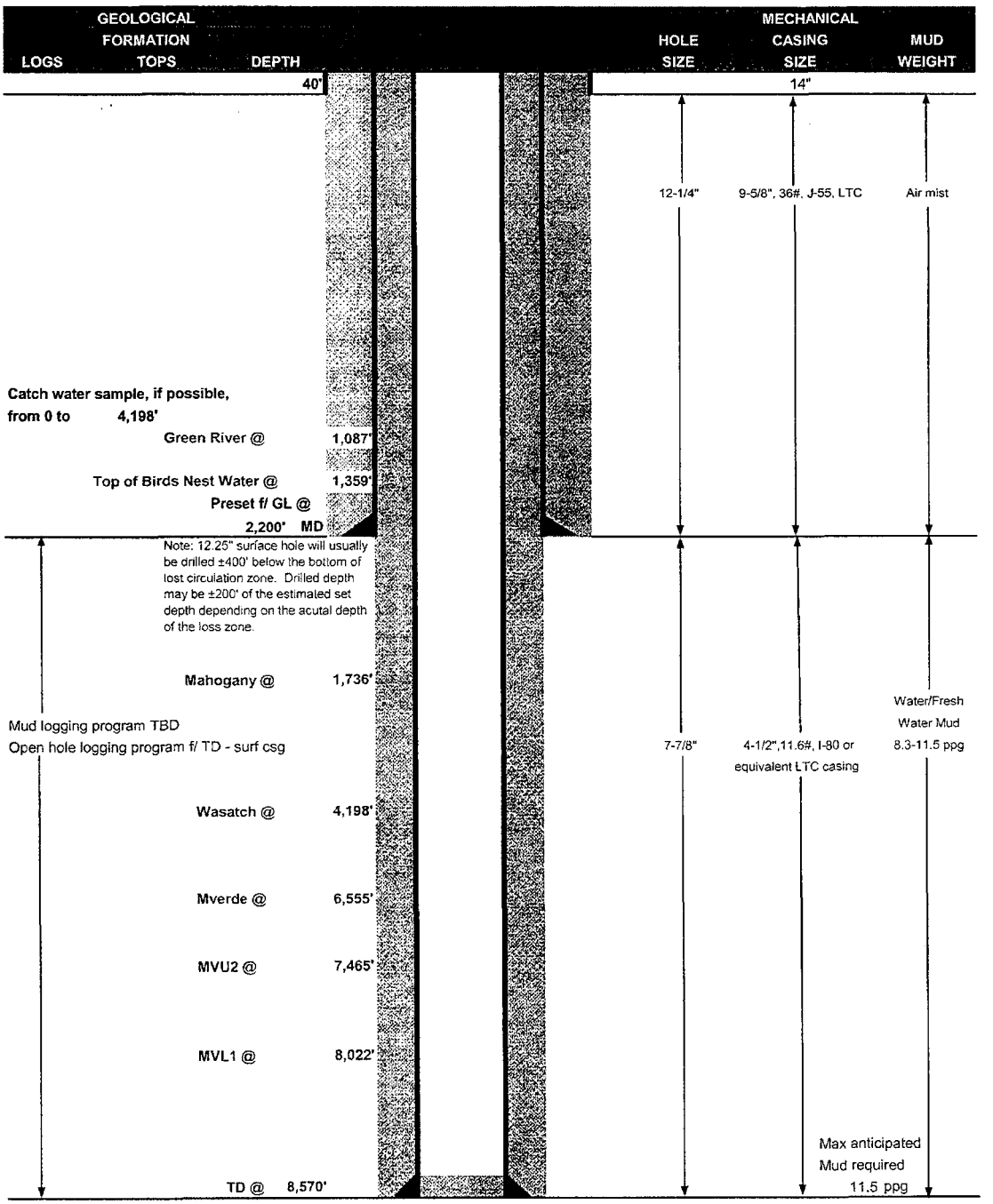
Please refer to the attached Drilling Program.

KerrMcGee

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	February 15, 2008	
WELL NAME	**NBU 1022-02D**		TD	8,570' MD/TVD	
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	ELEVATION 4,975' GL	KB 4,990'
SURFACE LOCATION	1090' FNL & 990' FWL			BHL	Straight Hole
	Latitude: 39.982267	Longitude: -109.413150			
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (SURF & MINERALS), UDOGM, Tri-County Health Dept.				



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'								
								3520	2020	453000
SURFACE	9-5/8"	0	to	2,200'	36.00	J-55	LTC	1.09	1.96	6.53
								7780	6350	201000
PRODUCTION	4-1/2"	0	to	8570	11.60	I-80	LTC	2.40	1.24	2.32

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)

2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 11.5 ppg) .22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3239 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ .25 pps flocele				
	TOP OUT CMT (1)	250	20 gals sodium silicate + Premium cmt	100		15.60	1.18
			+ 2% CaCl + .25 pps flocele				
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	2000	Prem cmt + 16% Gel + 10 pps gilsonite	230	35%	11.00	3.82
			+.25 pps Flocele + 3% salt BWOC				
	TAIL	500	Premium cmt + 2% CaCl	180	35%	15.60	1.18
			+ .25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,690'	Premium Lite II + 3% KCl + 0.25 pps	400	60%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	4,880'	50/50 Poz/G + 10% salt + 2% gel	1370	60%	14.30	1.31
			+.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____

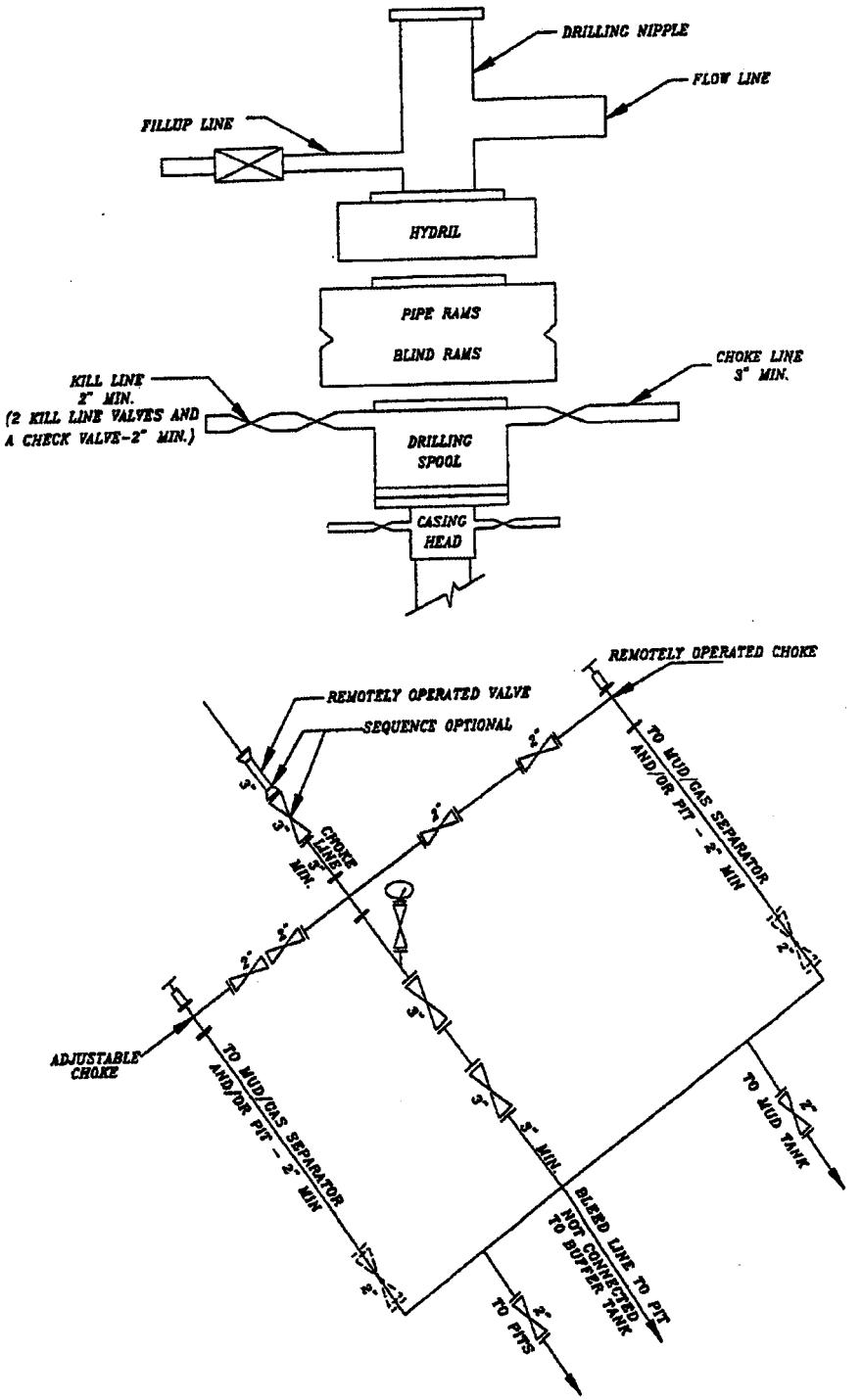
Brad Laney

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Randy Bayne

NBU 1022-02F

EXHIBIT A



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

NBU 1022-02D
NWNW SEC 2-T10S-R22E
UINTAH COUNTY, UTAH
ML-22651

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. **Existing Roads:**

Directions to the proposed location are attached.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. **Planned Access Roads:**

The proposed access road is approximately 150' +/-. Refer to Topo Map B.

The access road will be crowned (2 to 3%), ditched and constructed with a running surface of 18 feet and a maximum disturbed width of 30 feet. Graveling or capping the roadbed will be performed as necessary to provide a well constructed, safe road. Prior to construction or upgrading, the proposed road shall be cleared of any snow and allowed to dry completely.

Surface disturbance and vehicular traffic will be limited to the proposed location and proposed access route. Any additional area needed will be approved in advance. All construction shall be in conformance with the standards outlined in the BLM and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. 1989.

The road surface and shoulders will be kept in a safe and usable condition and will be maintained in accordance with the original construction standards. All drainage ditches will be kept clear and free-flowing and will be maintained according to original construction standards. The access road surface will be kept free of trash during operations. All traffic will be confined to the approved disturbed surface. Road drainage crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing or shall the drainages be blocked by the road bed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Should mud holes develop, they shall be filled in and detours around them avoided. When snow is removed from the road during the winter months, the snow shall be pushed outside of the borrow ditches, and the turnouts kept clear so that snowmelt will be channeled away from the road.

3. **Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

The following guidelines will apply if the well is productive.

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon (2.5 Y 6/2) as determined during the on-site inspection.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

Refer to Topo Map D for the placement of the proposed pipeline.

5. **Location and Type of Water Supply:**

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec.32, T4S,R3E, Water User Claim #43-8496, Application #53617.

Where available a 2" or 3" poly pipe will be installed with the existing rights-of-way to supply water during drilling and completion operations. There will be no new disturbance needed and the poly line will be removed after completion operations. The fresh water will be supplied from the power plant located within the following Sections 23, 24, 25, 26, 35, & 36, T8S, R23E.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

6. **Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

7. **Methods of Handling Waste Materials:**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

A plastic reinforced liner is to be used as discussed during on-site inspection. It will be a minimum of 20 mil thick and felt, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec.35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E. (Request is in lieu of filing Form 3160-5, after initial production).

8. **Ancillary Facilities:**

None are anticipated.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. **Plans for Reclamation of the Surface:**

Producing Location:

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water(s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring of the pit, the stockpiled topsoil will be spread evenly over the location up to the rig anchor points, the location shall be reshaped to the

original contour to the extent possible, and the location will be reseeded with Crested Wheatgrass using appropriate reclamation methods.

Dry Hole/Abandoned Location:

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

11. Surface Ownership:

State of Utah
SITLA
675 E. 500 S., Ste 500
Salt Lake City, UT 84102-2818

12. Other Information:

A Class III archaeological survey and a paleontological survey have been completed and the reports will be submitted separately.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance. The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within the boundaries of the Unit.

13. Lessee's or Operators's Representative & Certification:

Kevin McIntyre
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
1099 18th Street #1200
Denver, CO 80202
(720) 929-6226

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435)781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under the terms and the conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for the lease activities is being provided by Statewide Bond #RLB0005237.

I hereby certify that the proposed drill site and access route has been inspected and that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Kevin McIntyre

February 21, 2008
Date

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-2D

LOCATED IN UINTAH COUNTY, UTAH
SECTION 2, T10S, R22E, S.L.B.&M.

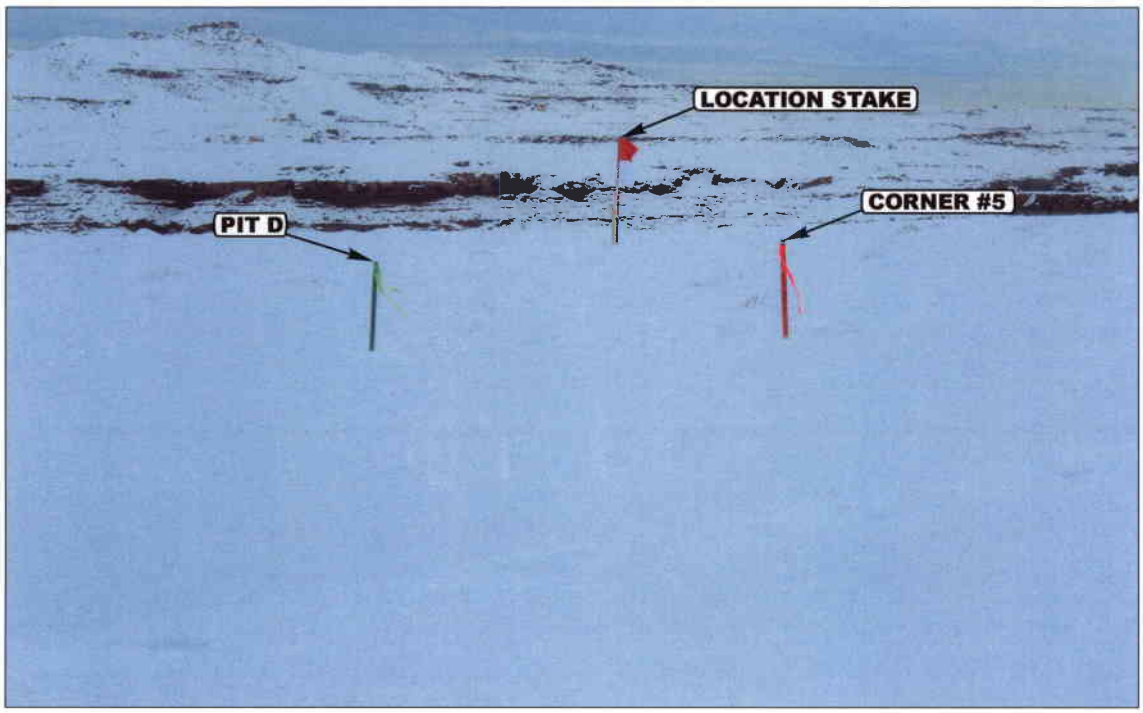


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE **CAMERA ANGLE: NORTHEASTERLY**

PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS **CAMERA ANGLE: EASTERLY**

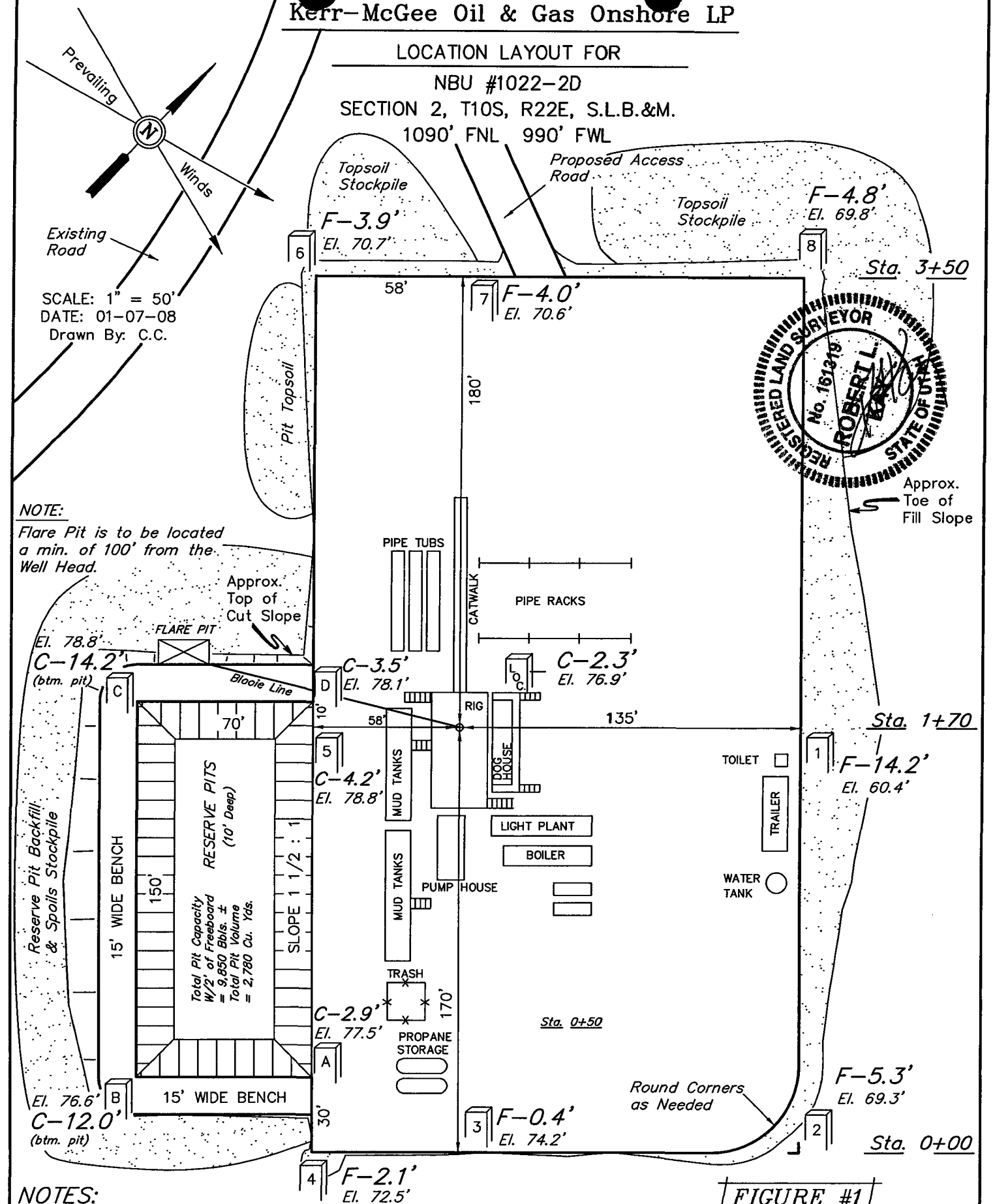
- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	1 MONTH	7 DAY	08 YEAR	PHOTO
TAKEN BY: A.F.	DRAWN BY: Z.L.	REVISED: 00-00-00		

Kerr-McGee Oil & Gas Onshore LP

LOCATION LAYOUT FOR

NBU #1022-2D
SECTION 2, T10S, R22E, S.L.B.&M.
1090' FNL 990' FWL



NOTES:

Elev. Ungraded Ground At Loc. Stake = 4976.9'
FINISHED GRADE ELEV. AT LOC. STAKE = 4974.6'

FIGURE #1

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

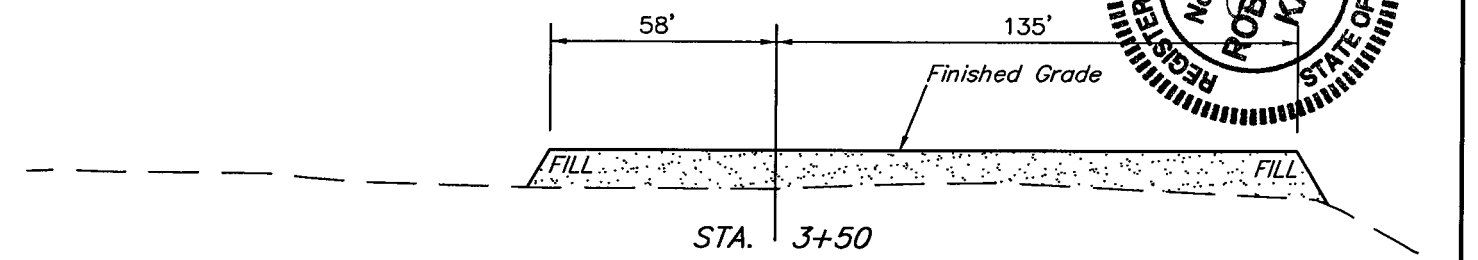
TYPICAL CROSS SECTIONS FOR

NBU #1022-2D
SECTION 2, T10S, R22E, S.L.B.&M.
1090' FNL 990' FWL

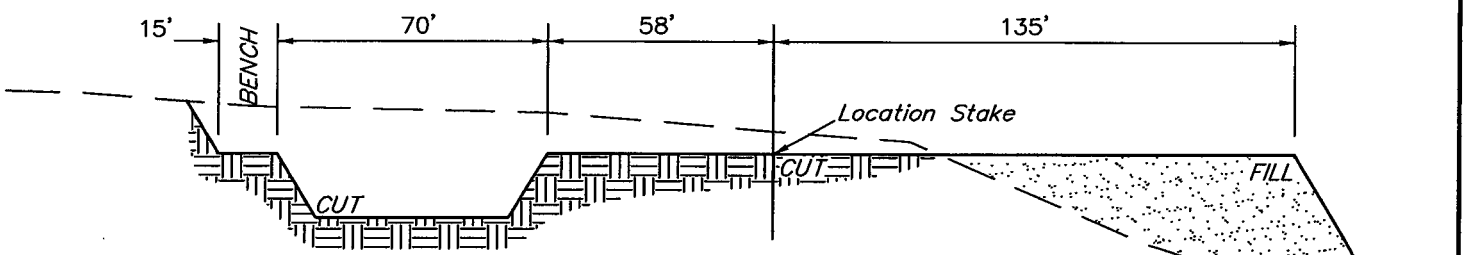
1" = 20'
X-Section Scale
1" = 50'

DATE: 01-07-08
Drawn By: C.C.

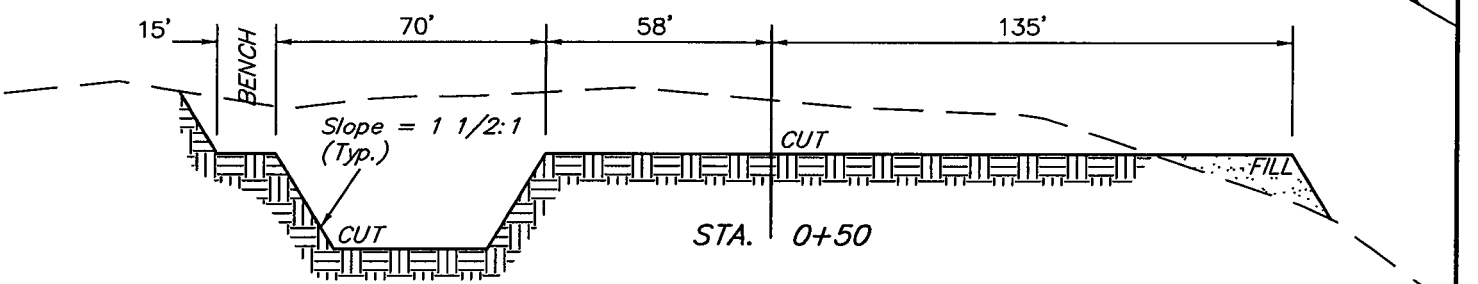
REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH



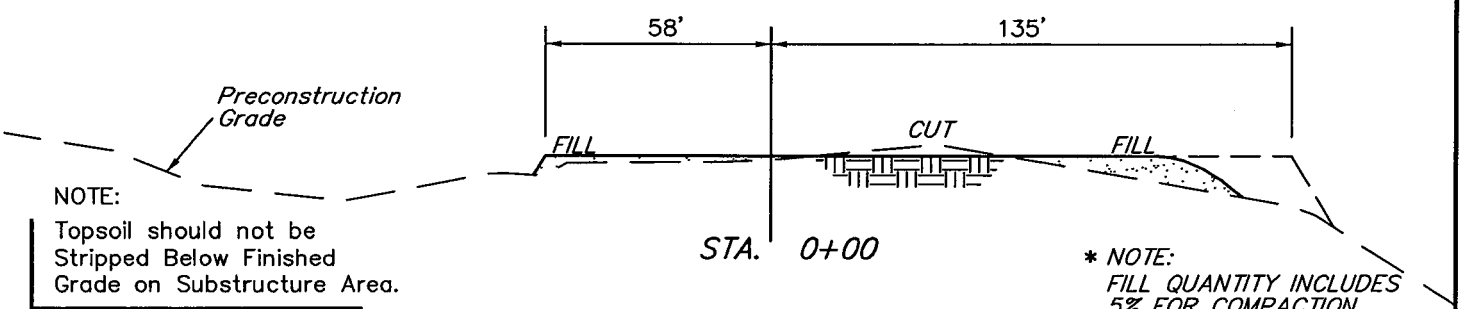
STA. 3+50



STA. 1+70



STA. 0+50



STA. 0+00

NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

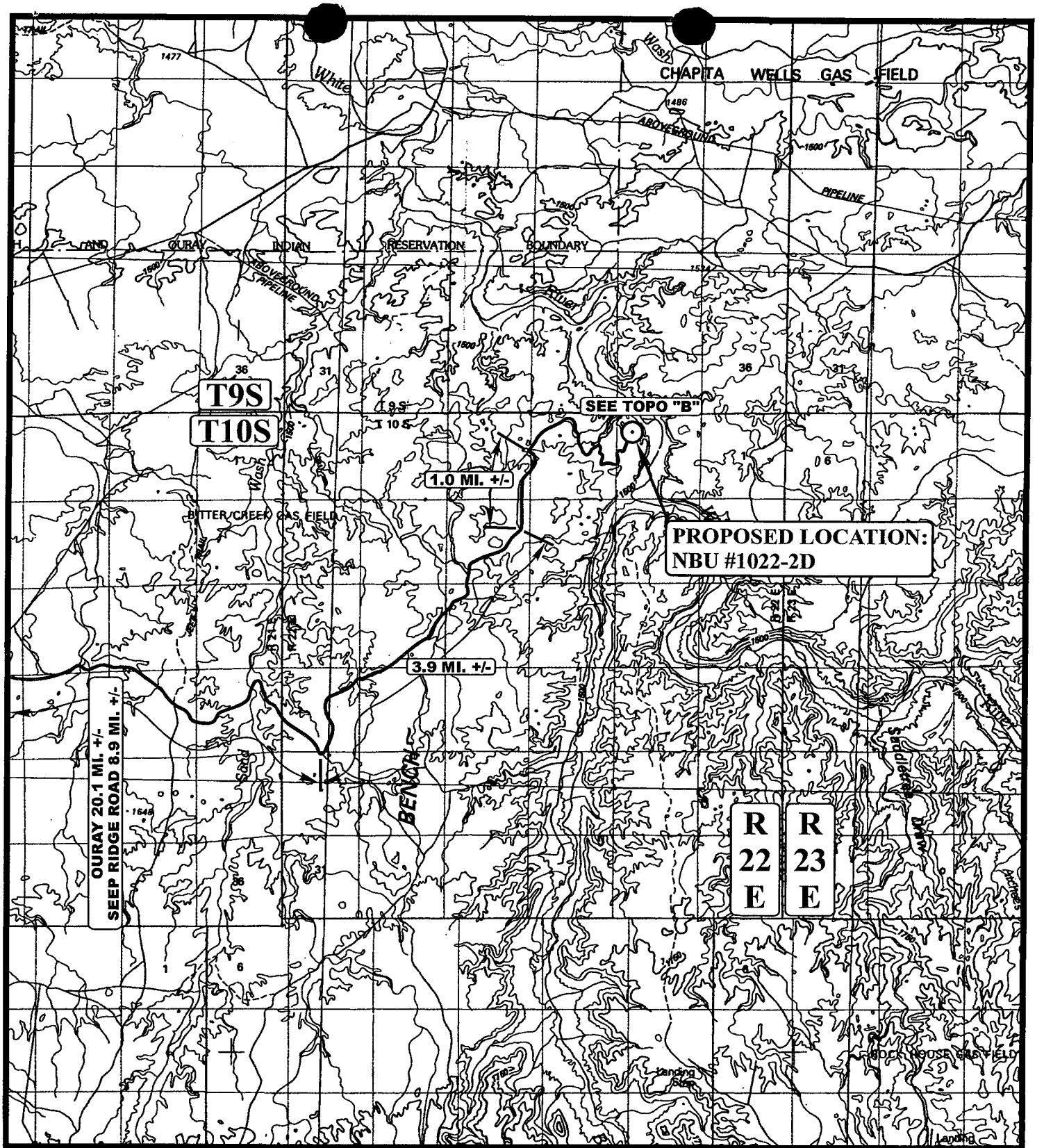
APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 1,800 Cu. Yds.
Remaining Location = 9,220 Cu. Yds.

TOTAL CUT = 11,020 CU.YDS.
FILL = 7,830 CU.YDS.

EXCESS MATERIAL = 3,190 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 3,190 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation) = 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017



LEGEND:

⊙ PROPOSED LOCATION

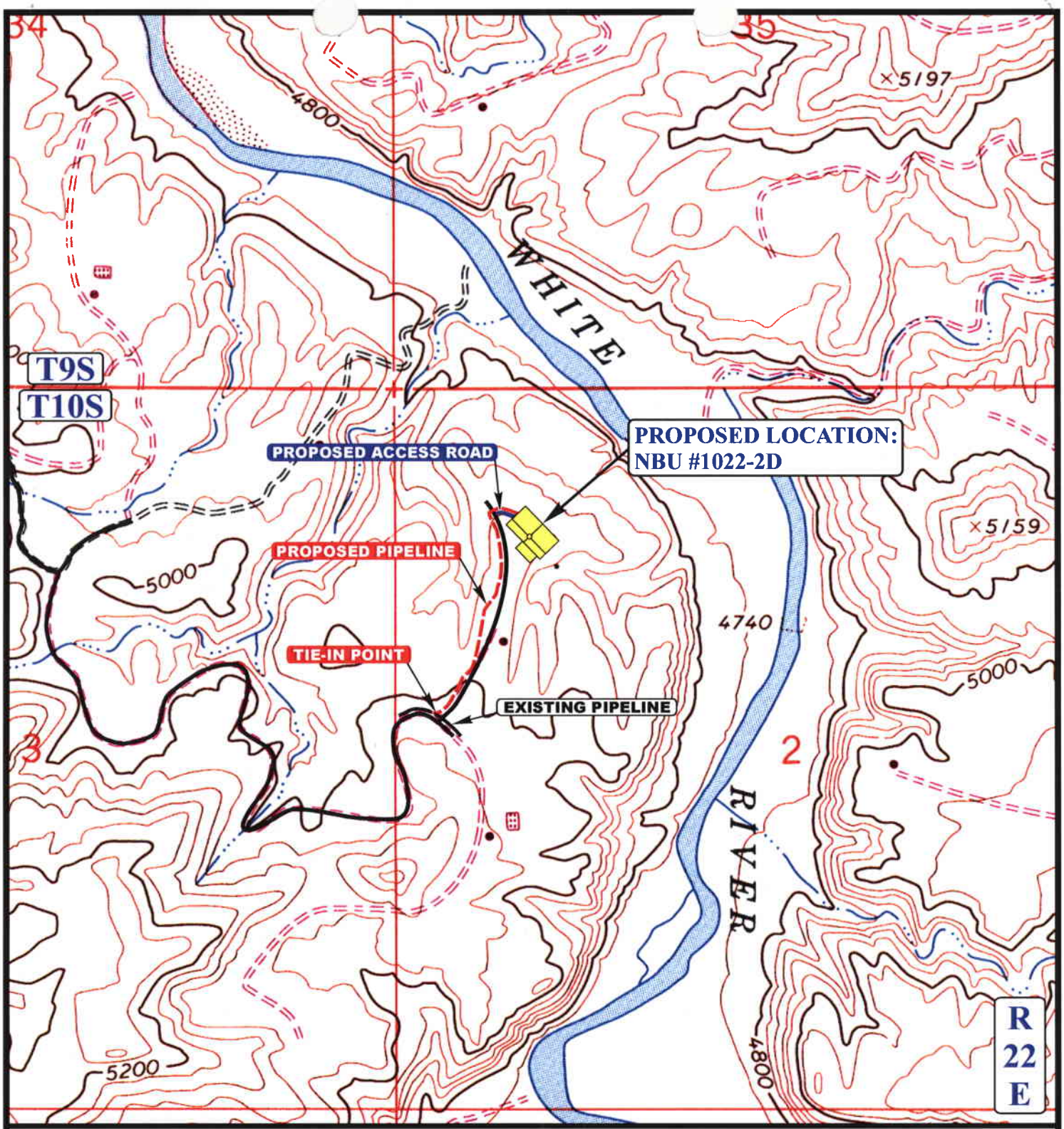
N

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-2D
SECTION 2, T10S, R22E, S.L.B.&M.
1090' FNL 990' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	1 MONTH	7 DAY	08 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: Z.L.	REVISED: 00-00-00		



APPROXIMATE TOTAL PIPELINE DISTANCE = 1,881' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE

N

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-2D
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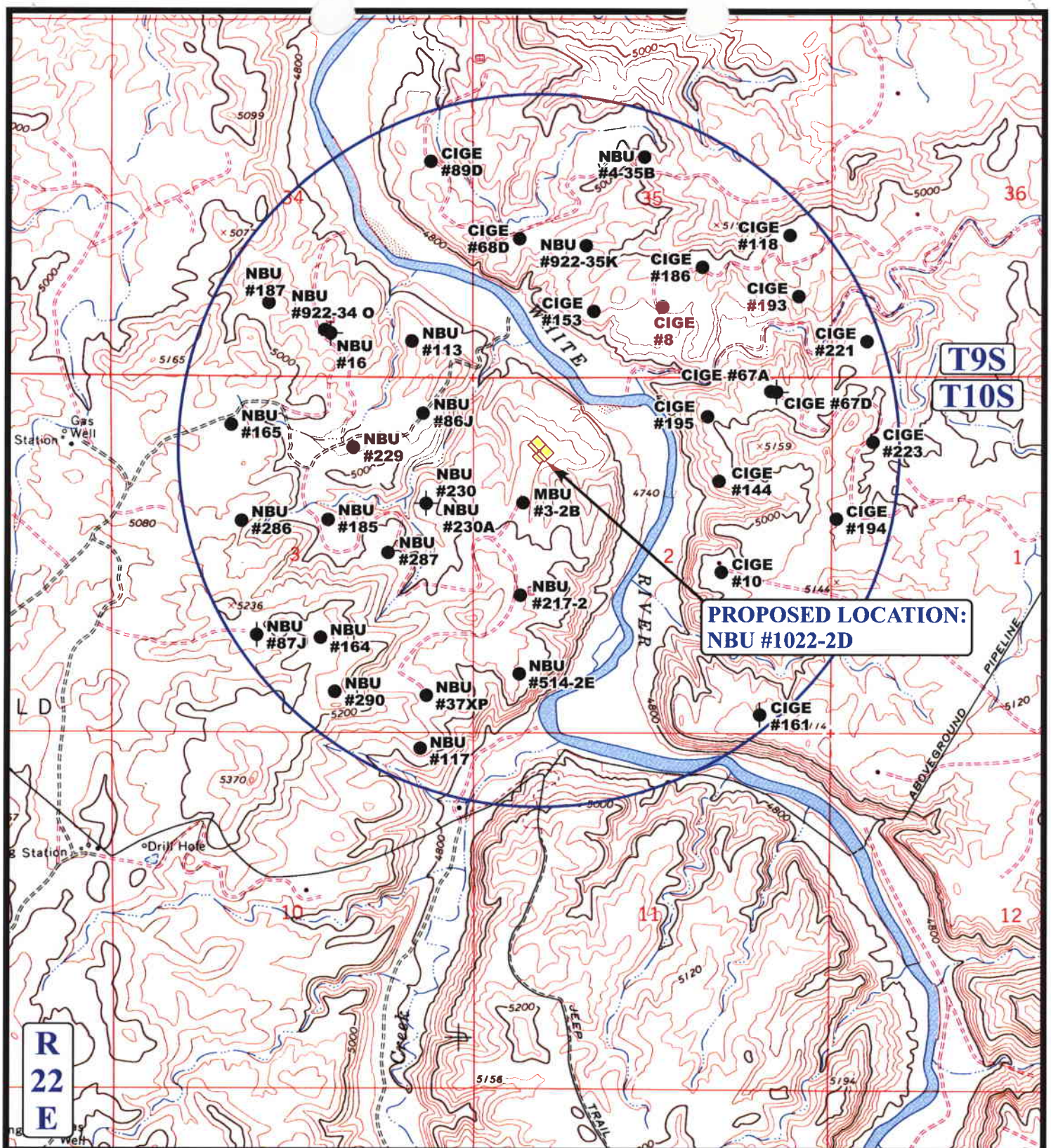
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	1 MONTH	7 DAY	08 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: Z.L.	REVISED: 00-00-00		



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

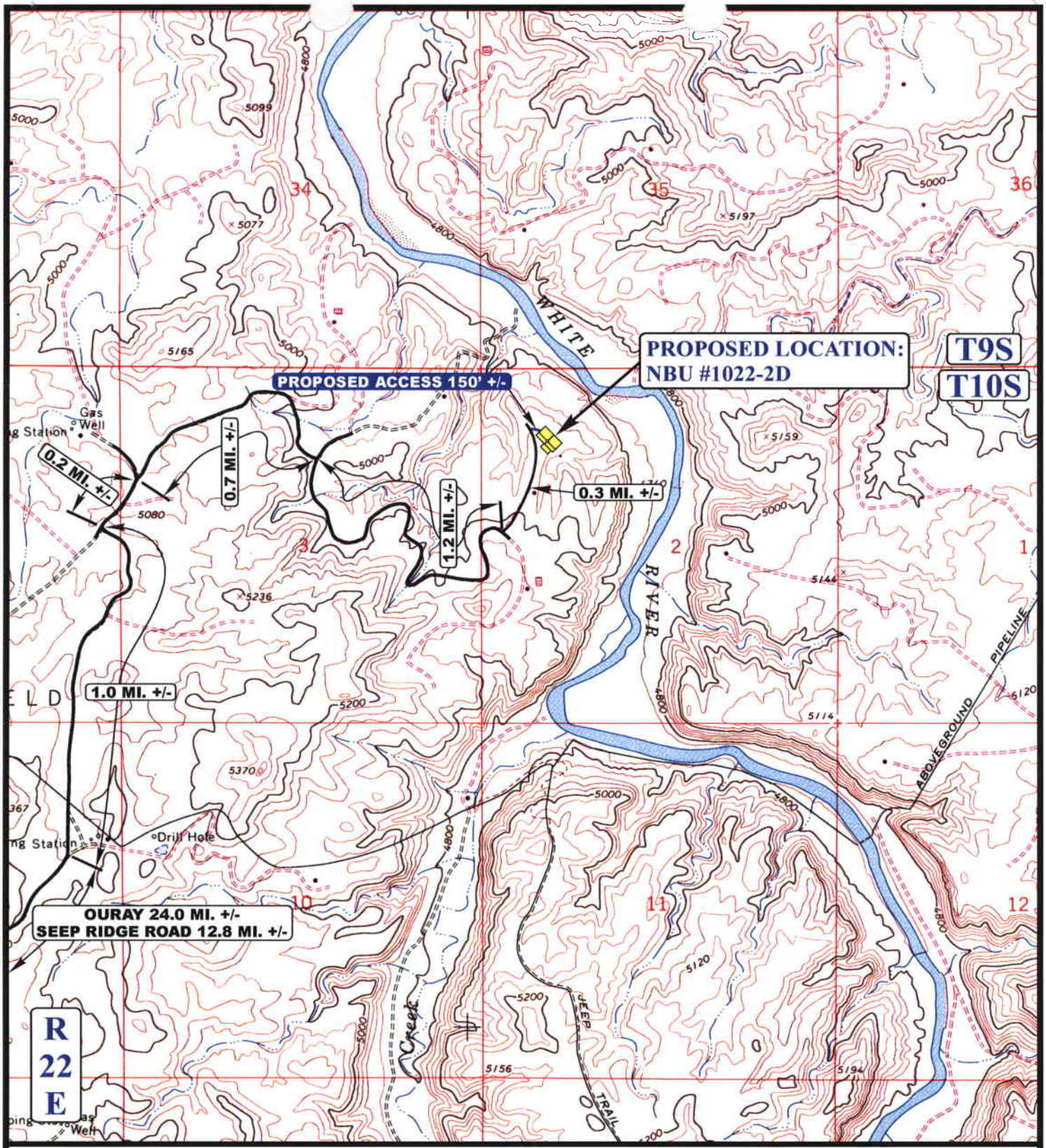
N

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-2D
SECTION 2, T10S, R22E, S.L.B.&M.
1090' FNL 990' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	1 MONTH	7 DAY	08 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: Z.L.	REVISED: 00-00-00		



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

N

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-2D
SECTION 2, T10S, R22E, S.L.B.&M.
1090' FNL 990' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	1 MONTH	7 DAY	08 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: Z.L.	REVISED: 00-00-00		

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-2D

LOCATED IN UINTAH COUNTY, UTAH
SECTION 2, T10S, R22E, S.L.B.&M.

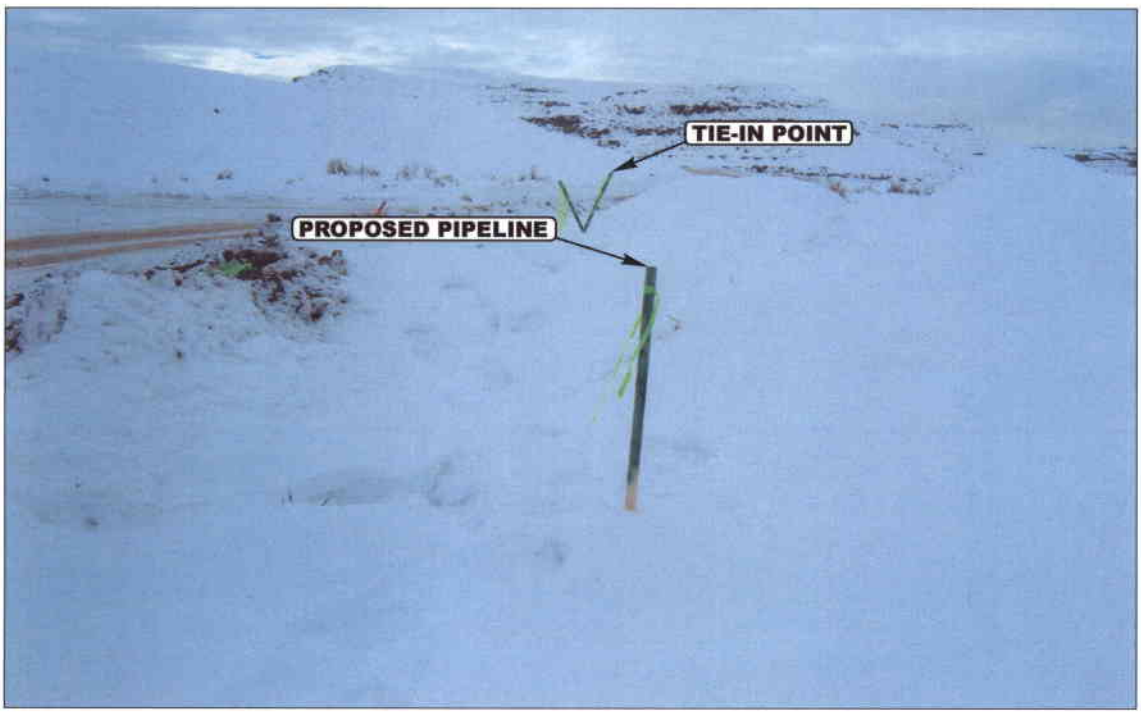


PHOTO: VIEW FROM PROPOSED PIPELINE **CAMERA ANGLE: SOUTHWESTERLY**

PHOTO: VIEW FROM ALONG PROPOSED PIPELINE **CAMERA ANGLE: NORTHERLY**

- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS	1 MONTH	7 DAY	08 YEAR	PHOTO
TAKEN BY: A.F.	DRAWN BY: Z.L.	REVISED: 00-00-00		

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/26/2008

API NO. ASSIGNED: 43-047-39955

WELL NAME: NBU 1022-02D

OPERATOR: KERR-MCGEE OIL & GAS (N2995)

PHONE NUMBER: 720-929-6226

CONTACT: KEVIN MCINTYRE

PROPOSED LOCATION:

NWNW 02 100S 220E

SURFACE: 1090 FNL 0990 FWL

BOTTOM: 1090 FNL 0990 FWL

COUNTY: UINTAH

LATITUDE: 39.98218 LONGITUDE: -109.4124

UTM SURF EASTINGS: 635557 NORTHINGS: 4426776

FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /		
Tech Review	**Initials**	**Date**
Engineering	DRD	5/12/08
Geology		
Surface		

LEASE TYPE: 3 - State

LEASE NUMBER: ML-22651

PROPOSED FORMATION: WSMVD

SURFACE OWNER: 3 - State

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[] Ind[] Sta[] Fee[]
(No. 22013542)

N Potash (Y/N)

Y Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 43-8496)

N RDCC Review (Y/N)
(Date:)

NA Fee Surf Agreement (Y/N)

NA Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: NATURAL BUTTES

___ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

___ R649-3-3. Exception

✓ Drilling Unit

Board Cause No: 173-14

Eff Date: 12-2-1999

Siting: 460' fr u bdrs & nn comm. Tracts

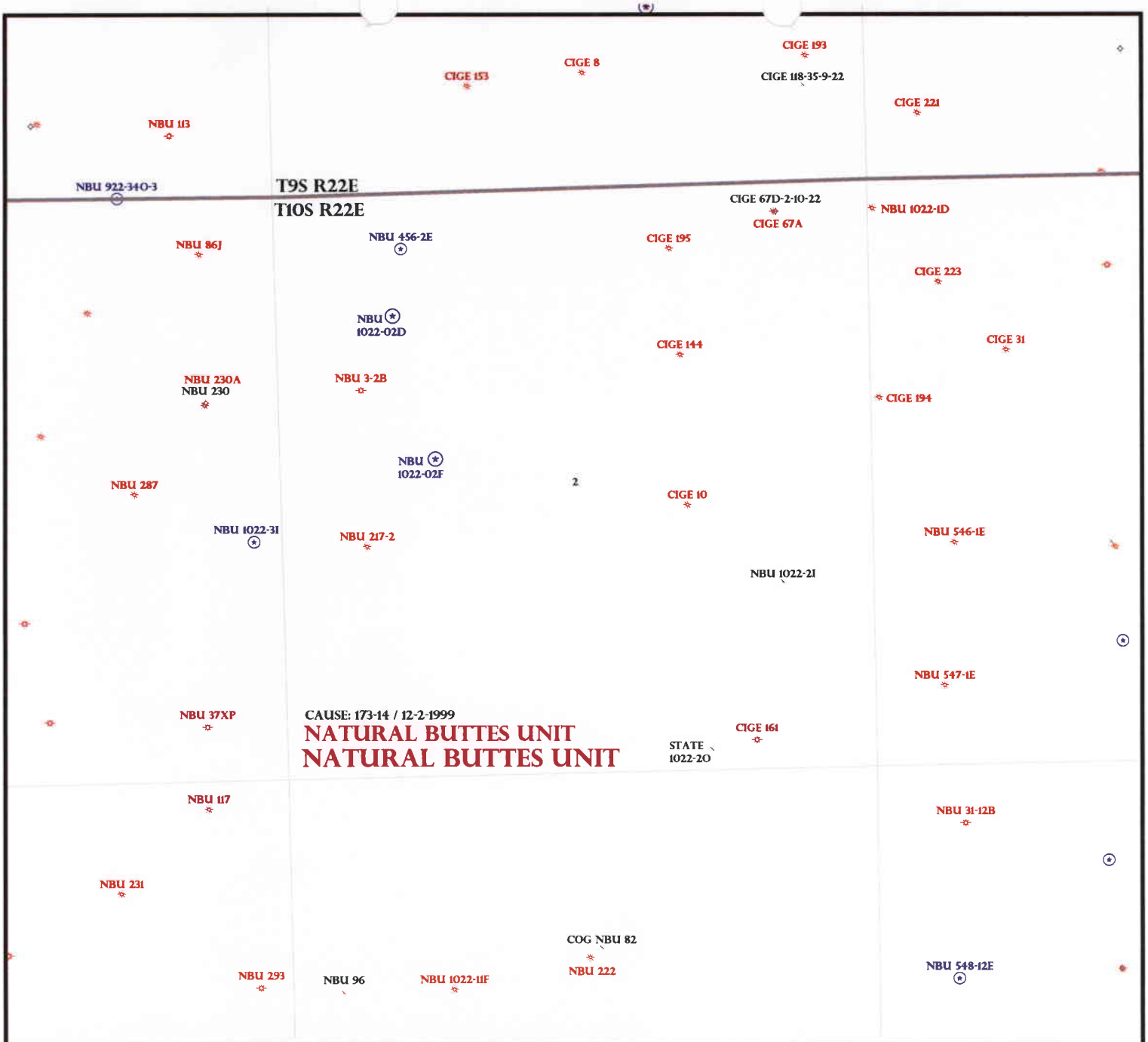
___ R649-3-11. Directional Drill

COMMENTS: Needs Presite (04-01-08)

STIPULATIONS: 1- STATEMENT OF BASIS

2 - OIL SHALE

3 - Surface Csg Cmt stip



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 2 T.10S R. 22E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

UTAH DNR
OIL, GAS & MINING

N
W E
S

PREPARED BY: DIANA MASON
DATE: 27-FEBRUARY-2008

Application for Permit to Drill
Statement of Basis

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
701	43-047-39955-00-00		GW	S	No

Operator KERR-MCGEE OIL & GAS ONSHO **Surface Owner-APD**
Well Name NBU 1022-02D **Unit** NATURAL BUTTES
Field NATURAL BUTTES **Type of Work**
Location NWNW 2 10S 22E S 1090 FNL 990 FWL GPS Coord (UTM) 635557E 4426776N

Geologic Statement of Basis

Kerr McGee proposes to set 2,200' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,300'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 2. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole.

Brad Hill 4/9/2008
APD Evaluator **Date / Time**

Surface Statement of Basis

The general area is in the Bitter Creek Gas Field in the southeast end of the Natural Buttes Unit. This area contains the lower Bitter Creek drainage, the White River and short rugged drainages that drain into the White River. Topography is varied consisting of narrow ridge tops, frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from ¼ mile to 2 miles. The side drainages including Bitter Creek, which joins the White River in this area, are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 39 air miles to the northwest. Access from Ouray, Utah is approximately 27.2 road miles following Utah State, Uintah County and oilfield development roads to the location. A new road 0.3 miles in length will be constructed to the proposed pad.

The proposed NBU 1022-02D gas well is on a south-north trending ridge top that ends overlooking the White River on the north. The ridge is somewhat flat with a slight slope to the north. It slopes off steeply on all sides except the south. The distance from the wellhead to the reserve pit will be reduced from 58 to 40 feet to accommodate the smaller rig, which will drill this well. Because the location is elevated in rough terrain above the White River a double 20-mil liner and an appropriate thickness of sub felt to cushion all rock is required for the reserve pit. The White river is about ¼ mile to the north dropping about 500 vertical feet to the river corridor. No drainages intersect the location and no diversions are needed. This appears to be a suitable location for constructing a pad, drilling and operating a well and is the only suitable site in the immediate area.

When the well is completed the storage tanks may be in view for a short distance along the river bottom. Ed Bonner of SITLA said this would be acceptable.

Both the surface and minerals for this location are owned by SITLA. Ed Bonner of SITLA attended the pre-site visit and expressed no concerns regarding the proposed location except for those discussed above.

Ben Williams represented the UDWR at the pre-site visit. He explained that the area is classified as yearlong critical habitat for antelope. He stated the lack of water not forage is the limiting factor affecting the herd in the area. The area along the river corridor is also classified as crucial yearlong range for deer. He did not recommend any restrictions for either species. No other wildlife is expected to be significantly affected. He

gave Ed Bonner of SITLA and Rayleen White of Kerr McGee a copy of his wildlife evaluation and a UDWR recommended seed mix to be used when re-vegetating the location.

The following statement by the UDWR was previously provided for consideration in approving Permits to Drill in the White River area. "The White River in Utah is home to one of the more intact native fish assemblages in the Colorado River basin. We regularly see large adult Colorado pikeminnow (Ptychocheilus lucius) and all age/size classes of flannelmouth sucker (Catostomus latipinnis), bluehead sucker (Catostomus discobolus), and roundtail chub (Gila robusta). The pikeminnow is an endangered species covered under the ESA and managed through activities funded by the Upper Colorado River Endangered Fish Recovery Program. The remaining three species are state sensitive species covered under a Range-wide Conservation Agreement and Strategy signed by six states and numerous federal and tribal agencies and a State Management Plan for the three species also signed by state, federal, and tribal agencies. We have planned many conservation actions for the three species around the state; however, we have not worried about the White River populations as much because we still see all life stages here. If development is allowed without mitigation for potential impacts to these species, we could see a disruption in this population like we've seen in other streams and rivers across the state. Spills and/or leaks may impact these fish by a number of means, from simply causing a fish kill and harming all individuals that cannot escape the spill to interruption of spawning cues (meaning they may go one or more years depending on the severity of the spill without spawning.

Floyd Bartlett	4/1/2008
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A double synthetic liner each with a minimum thickness of 20 mils and an appropriate thickness of felt sub-liner to cushion the liners shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHO
Well Name NBU 1022-02D
API Number 43-047-39955-0 **APD No** 701 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 NWNW **Sec** 2 **Tw** 10S **Rng** 22E 1090 FNL 990 FWL
GPS Coord (UTM) 635554 4426791 **Surface Owner**

Participants

Floyd Bartlett (DOGM), Ed Bonner (SITLA), Rayleen White, Kevin McIntyre, Rammie Hoops and Tony Kzneck (Kerr McGee) and David Kay (Uintah Engineering and Land Surveying), Ben Williams (UDWR).

Regional/Local Setting & Topography

The general area is in the Bitter Creek Gas Field in the southeast end of the Natural Buttes Unit. This area contains the lower Bitter Creek drainage, the White River and short rugged drainages that drain into the White River. Topography is varied consisting of narrow ridge tops, frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from ¼ mile to 2 miles. The side drainages including Bitter Creek, which joins the White River in this area, are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 39 air miles to the northwest. Access from Ouray, Utah is approximately 27.2 road miles following Utah State, Uintah County and oilfield development roads to the location. A new road 0.3 miles in length will be constructed to the proposed pad.

The proposed NBU 1022-02D gas well is on a south-north trending ridge top that ends overlooking the White River on the north. The ridge is somewhat flat with a slight slope to the north. It slopes off steeply on all sides except the south. The distance from the wellhead to the reserve pit will be reduced from 58 to 40 feet to accommodate the smaller rig, which will drill this well. Because the location is elevated in rough terrain above the White River a double 20-mil liner and an appropriate thickness of sub felt to cushion all rock is required for the reserve pit. The White river is about ¼ mile to the north dropping about 500 vertical feet to the river corridor. No drainages intersect the location and no diversions are needed. This appears to be a suitable location for constructing a pad, drilling and operating a well and is the only suitable site in the immediate area.

Both the surface and minerals for this location are owned by SITLA.

Surface Use Plan

Current Surface Use
Grazing
Recreational
Wildlfe Habitat
Deer Winter Range

New Road Miles	Well Pad		Src Const Material	Surface Formation
0.03	**Width** 260	**Length** 350	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetland N

Flora / Fauna

Vegetation in the area includes cheatgrass, shadscale, bud sage, black sage, Gardner saltbrush, prickly pear and spring annuals.

Deer, antelope, coyote, rabbits and other small mammals inhabit the area. Cattle may occasionally graze in the area. Various avian species are expected. No raptors are recorded in the UDWR data base in the surrounding area.

Soil Type and Characteristics

Surface soils are a moderately deep rocky sandy loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? N **Paleo Potental Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	300 to 1320	10
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	<10	0
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0
	Final Score	25 1 **Sensitivity Level**

Characteristics / Requirements

Pit size is 70' x 150' x 10' deep. It is located in cut in the southwest corner of the location. A 15-foot wide bench will be constructed around the exterior of the pit.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 40 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett	4/1/2008
Evaluator	**Date / Time**

BOPE REVIEW — Kerr-McGee NBU 1022-02D API 43-047-39955

INPUT

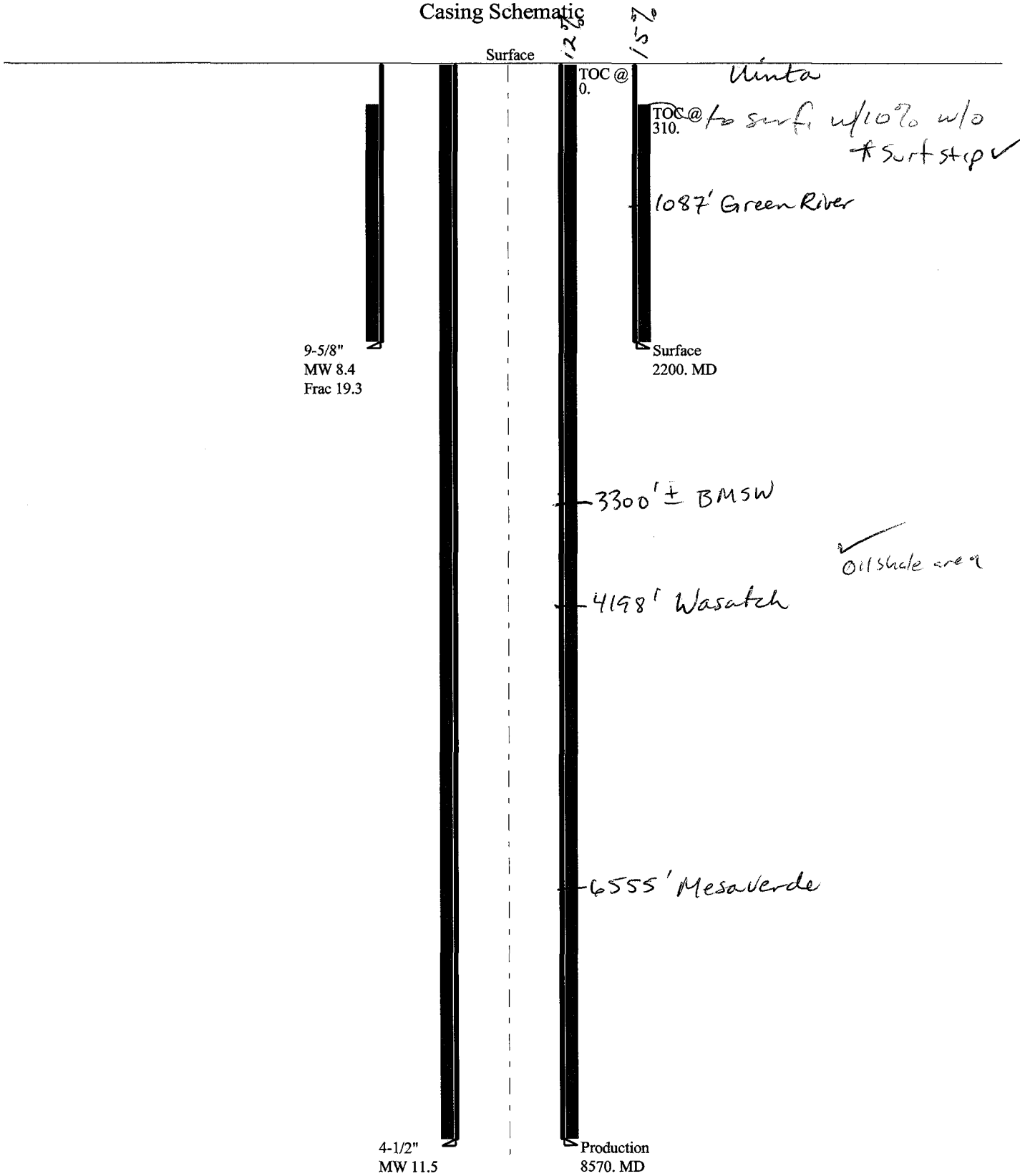
Well Name	Kerr-McGee NBU 1022-02D API 43-047-39955			
	String 1	String 2		
Casing Size (")	9 5/8	4 1/2		
Setting Depth (TVD)	2200	8200		
Previous Shoe Setting Depth (TVD)	0	2000		
Max Mud Weight (ppg)	8.4	11.5		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3520	7780		
Operators Max Anticipated Pressure (psi)	5313	12.5 ppg		

Calculations	String 1	9 5/8 "	
Max BHP [psi]	.052*Setting Depth*MW =	961	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	697	NO ✓ ok. Air Drill to surface shoe
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	477	YES
			***Can Full Expected Pressure Be Held At Previous Shoe?**
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	477	NO ← No press. ok.
Required Casing/BOPE Test Pressure		2200	psi
***Max Pressure Allowed @ Previous Casing Shoe =**		0	psi

Calculations	String 2	4 1/2 "	
Max BHP [psi]	.052*Setting Depth*MW =	4904	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	3920	YES
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	3100	YES ✓
			***Can Full Expected Pressure Be Held At Previous Shoe?**
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	3540	← NO Reasonable
Required Casing/BOPE Test Pressure		5000	psi
***Max Pressure Allowed @ Previous Casing Shoe =**		2000	psi *Assumes 1psi/ft frac gradient

2008-04 Kerr McGee NBU 1022-02D

Casing Schematic



Well name:	**2008-04 Kerr McGee NBU 1022-02D**
Operator:	**Kerr McGee Oil & Gas Onshore L.P.**
String type:	Surface
Project ID:	43-047-39955
Location:	Uintah County, Utah

Design parameters:

Collapse
Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 1,936 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,200 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 1,926 ft

Environment:
H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 106 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,300 ft

Cement top: 310 ft

Non-directional string.

Re subsequent strings:
Next setting depth: 8,570 ft
Next mud weight: 11.500 ppg
Next setting BHP: 5,120 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,200 ft
Injection pressure: 2,200 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft^3)
1	2200	9.625	36.00	J-55	LT&C	2200	2200	8.796	954.9

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	960	2020	2.104	2200	3520	1.60	69	453	6.53 J

Prepared by: Helen Sadik-Macdonald, Div of Oil,Gas & Minerals
Phone: (801) 538-5357
FAX: (801) 359-3940
Date: April 16,2008
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 2200 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	**2008-04 Kerr McGee NBU 1022-02D**
Operator:	**Kerr McGee Oil & Gas Onshore L.P.**
String type:	Production
Project ID:	43-047-39955
Location:	Uintah County, Utah

Design parameters:

Collapse
Mud weight: 11.500 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 3,234 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,120 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 7,097 ft

Environment:
H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 195 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: Surface

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft^3)
1	8570	4.5	11.60	I-80	LT&C	8570	8570	3.875	747.9

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	5120	6360	1.242	5120	7780	1.52	82	212	2.58 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Minerals
Phone: (801) 538-5357
FAX: (801) 359-3940
Date: April 16,2008
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 8570 ft, a mud weight of 11.5 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

From: Jim Davis
To: Bonner, Ed; Garrison, LaVonne; Mason, Diana
Date: 10/30/2008 9:19 AM
Subject: Well approvals

The following wells have been approved by SITLA, including arch and plaeo clearance.

Kerr McGEE	43-047-39954	NBU 1022-02F
Kerr McGEE	43-047-39955	NBU 1022-02D
Kerr McGEE	43-047-39959	NBU 1022-13H
Newfield Prod Co	43-013-34005	State 9-32T-8-17
Newfield Prod Co	43-047-40160	State 13-36T-8-17
Newfield Prod Co	43-047-40161	State 16-2T-9-17
Newfield Prod Co	43-013-34006	State 11-2T-9-17

-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

November 4, 2008

Kerr-McGee Oil & Gas Onshore, LP
1099 18th St., #1200
Denver, CO 80202

Re: NBU 1022-02D Well, 1090' FNL, 990' FWL, NW NW, Sec. 2, T. 10 South, R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39955.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal Field Office
SITLA

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR
OIL, GAS & MINING

Operator: Kerr-McGee Oil & Gas Onshore, LP

Well Name & Number NBU 1022-02D

API Number: 43-047-39955

Lease: ML-22651

Location: NW NW **Sec.** 2 **T.** 10 South **R.** 22 East

Conditions of Approval

1. **General**

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. **Notification Requirements**

   The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

   - 24 hours prior to cementing or testing casing – contact Dan Jarvis
   - 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
   - 24 hours prior to spudding the well – contact Carol Daniels
   - Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
   - Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

   The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

   - Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
   - Any changes to the approved drilling plan – contact Dustin Doucet

   The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

   - Dan Jarvis at: (801) 538-5338 office (801) 942-0871 home
   - Carol Daniels at: (801) 538-5284 office
   - Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

3. **Reporting Requirements**

   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

7. Surface casing shall be cemented to the surface.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: **KERR-McGEE OIL & GAS ONSHORE, L.P.**

Well Name: **NBU 1022-02D**

Api No: **43-047-39955** Lease Type: **STATE**

Section **02** Township **10S** Range **22E** County **UINTAH**

Drilling Contractor **PETE MARTIN DRLG** RIG # **BUCKET**

SPUDDED:

Date **01/17/2009**

Time **8:00 AM**

How **DRY**

Drilling will Commence:

Reported by **LEW WELDON**

Telephone # **(435) 828-7035**

Date **01/20/2009** **Signed** **CHD**

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078
Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739954	NBU 1022-02F		SENW	2	10S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	1/18/2009			1/29/09	

Comments: MIRU PETE MARTIN BUCKET RIG. SPUD WELL LOCATION ON 01/18/2009 AT 0800 HRS. WSMVD

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739955	NBU 1022-02D		NWNW	2	10S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	1/17/2009			1/29/09	

Comments: WSMVD

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	

Comments:

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA UPCHEGO
Name (Please Print)
Signature
REGULATORY ANALYST
Title
~~1/26/2009~~ 1/19/09
Date
per Sheila's email

(5/2000)

RECEIVED
JAN 20 2009
DIV. OF OIL, GAS & MINING

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22651

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: UNIT #891008900A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: NBU 1022-02D

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304739955

3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1090'FNL, 990'FWL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 2 10S 22E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: SET SURFACE CSG
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PROPETRO AIR RIG ON 01/26/2009. DRILLED 12 1/4" SURFACE HOLE TO 2270'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT W/350 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DISPLACE W/169 BBLS OF H2O 300 PSI LIFT BUMP PLUG 800 PSI FLOAT HELD. TOP OUT W/100 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE. 2ND TOP OUT W/225 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACK SIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE REGULATORY ANALYST

SIGNATURE DATE 2/9/2009

(This space for State use only)

RECEIVED
FEB 09 2009
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22651

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: UNIT #891008900A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: NBU 1022-02D

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304739955

3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1090'FNL, 990'FWL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 2 10S 22E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: FINAL DRILLING OPERATIONS
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING FROM 2270' TO 8740' ON 03/02/2009. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/385 SX PREM LITE II @11.4 PPG 2.95 YIELD. TAILED CMT W/1200 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DROP PLUG AND DISPLACE W/135.1 BBLS OF CLAYTREAT WATER W/MAGNACIDE 10 BBLS OF LEAD TO SURFACE 2380 PSI OF LIFT BUMP PLUG 2850 FLOATS HELD. WASH OUT STACK NIPPLE DOWN ST WELL HEAD PACKING AND TEST TO 5000 PSI INSTALL NIGHT CAP. CLEAN PITS.

RELEASED PIONEER RIG 69 ON 03/04/2009 AT 0230 HRS.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE REGULATORY ANALYST

SIGNATURE DATE 3/4/2009

(This space for State use only)

RECEIVED
MAR 05 2009
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

API Well No: 43047399550000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-22651

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-02D

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047399550000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1090 FNL 0990 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 02 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 10/16/2009	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 10/16/2009 AT 12:45 P.M. PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
October 19, 2009

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 10/19/2009

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009
Project: UTAH-UINTAH	Site: NBU 1022-02D	Rig Name No: PROPETRO/, PIONEER 68/68
Event: DRILLING	Start Date: 1/26/2009	End Date: 3/4/2009
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/26/2009	0:30 - 12:00	11.50	DRLSUR	02		P		AIR SPUD 00:30 1/26/2009 DRILL F/ 40' TO 750'. WITH AIR HAMMER. NO WATER.
	12:00 - 0:00	12.00	DRLSUR	02		P		DRILL F 750' TO 1110' W/ AIR HAMMER (NO WATER)
1/27/2009	0:00 - 12:00	12.00	DRLSUR	02		P		DRILL F/ 1110' TO 1440' BIT TRIP @ 1380' NO WATER
	12:00 - 0:00	12.00	DRLSUR	02		P		DRILL F/ 1440' TO 1530' WATER @ 1470' SURVEY @1530'= 1 DEGREE
1/28/2009	0:00 - 5:30	5.50	DRLSUR	02		P		DRILL F/ 1530' TO 1650'. CIRC W/ SKID PUMP.
	5:30 - 0:00	18.50	DRLSUR	19	A	P		PUMP PROBLEMS. STUCK PIPE. REGAIN CIRC. BUT WAS STILL UNABLE TO UNSTICK PIPE. FREE POINT. FREE TO BIT. BACK OUT 1 COLLAR ABOVE BIT. TRIP OUT AND PICK UP WASH PIPE. TRIP DOWN. UNABLE TO GET DOWN TO FISH.
1/29/2009	0:00 - 6:00	6.00	DRLSUR	19	A	Z		TRIP IN HOLE W/ WASH PIPE, WASH PIPE WOULD NOT WASH DOWN 100' ABOVE FISH. TRIP OUT W/ WASH PIPE.
	6:00 - 12:00	6.00	DRLSUR	19	A	Z		TRIP OUT W/ WASH PIPE, AND PICK UP 12 1/4 TRI-CONE AND WASH TO TOP OF FISH, TRIP OUT W/ TRICONE
	12:00 - 18:00	6.00	DRLSUR	19	A	Z		TRIP OUT OF HOLE, P/U 60' WASH PIPE AND TRIP IN, BRIDGE OUT 40' ABOVE FISH, START WASHING DOWN TO FISH.
	18:00 - 0:00	6.00	DRLSUR	19	A	Z		WASH DOWN TO FISH AND OVER FISH.
1/30/2009	0:00 - 6:00	6.00	DRLSUR	19	A	Z		WASH OVER FISH, TRIP OUT OF HOLE W/ WASH PIPE. LD WASH PIPE.
	6:00 - 12:00	6.00	DRLSUR	19	A	Z		P/U OVERSHOT AND TRIP IN HOLE, CATCH FISH.
	12:00 - 18:00	6.00	DRLSUR	19	A	Z		TRIP OUT OF HOLE W/ FISH, LD FISH, AND FISHING TOOLS.
	18:00 - 0:00	6.00	DRLSUR	02		P		DRILL F/ 1650' TO 1710'. PUMP W/ SKID PUMP TO CONTROL WATER GAIN.
1/31/2009	0:00 - 12:00	12.00	DRLSUR	02		P		DRILL F/ 1710' TO 1950' CIRC W/ SKID PUMP
	12:00 - 0:00	12.00	DRLSUR	02		P		DRILL F/ 1950' TO 2160' SURVEY 2010'= 2 1/2 DEGREES. REDUCE WT ON BIT. CIRC W/ SKID PUMP
2/1/2009	0:00 - 8:00	8.00	DRLSUR	02		P		DRILL F/ 2160' TO 2270' TD 08:00 2/1/2009 SURVEY 2270'= 1.5 DEGREES
	8:00 - 12:00	4.00	DRLSUR	06		P		CIRC AND CLEAN HOLE, LDDS.
	12:00 - 17:00	5.00	DRLSUR	12		P		RUN 52 JTS OF 9-5/8" OF 36#, J-55, LT&C TO THE DEPTH 2231.9'
	17:00 - 18:30	1.50	DRLSUR	12		P		PUMP 350 SX (72 BBLS) 2% CAL 15.8#, 1.15 YD, 5 GAL/SX TAIL CEMENT. DISPLACE W/ 169 BBLS OF H20, 300 PSI LIFT. BUMP PLUG 800 PSI. FLOAT HELD.
	18:30 - 20:30	2.00	DRLSUR	12		P		TOP #1 PUMP 100 SX (20 BBLS) SX 4% CAL 15.8#, 1.15 YD, 5 GAL/SX DOWN BACK SIDE
	20:30 - 21:00	0.50	DRLSUR	12		P		TOP#2 PUMP 225 SX (46 BBLS) SX 2% CAL 15.8#, 1.15 YD, 5 GAL/SX DOWN BACKSIDE CEMENT TO SURFACE AND STAYED.
2/22/2009	13:00 - 0:00	11.00	RDMO	01	E	P		RIG DOWN RIG AND READY FOR RIG MOVE. RIG MOVE IS 1/2 MILE NORTH.
2/23/2009	0:00 - 7:00	7.00	RDMO	01	E	P		RIG DOWN RIG AND READY FOR TRUCK.

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009
Project: UTAH-UINTAH	Site: NBU 1022-02D	Rig Name No: PROPETRO/, PIONEER 68/68
Event: DRILLING	Start Date: 1/26/2009	End Date: 3/4/2009
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 11:00	4.00	RDMO	01	A	P		HOLD SAFETY MEETING W/ L&S TRUCKING, J C CRANE, AND PIONEER DRILLING ABOUT MOVING RIG. BRUCE TAYLOR SAFETY HAND ATTENDED. TEAR DOWN RIG AND MOVE RIG 1/2 MILE TO LOCATION 7 TRUCKS. 3 SWAMPERS, 1 TRUCK PUSHER, 2 FORKLIFTS, 1 CRANE OPERATOR, 3 CRANE SWAMPERS. 6 HANDS, 1 TOOL PUSHER.
	11:00 - 15:00	4.00	MIRU	01	B	P		MOVE IN AND RIG UP RIG. SPOT ENTIRE RIG. @ 13:00 HELD SAFETY MEETING W/ MOUNTAIN WEST. AND MOUNTAIN WEST STARTED MOVING CAMPS. TRUCKS RELEASE @ 15:00. MOUNTAIN WEST RELEASED @ 16:00. JC CRANE RELEASE @ 16:00. HALF MASS DERRICK AND RAISE SUB
	15:00 - 0:00	9.00	MIRU	01	B	P		RAISE DERRICK AND RIG UP RIG. RIG 90 % RIGGED UP.
2/24/2009	0:00 - 1:00	1.00	MIRU	01	B	P		RIG UP RIG.
	1:00 - 5:30	4.50	DRLPRO	14	A	P		INSTALL FMC LOCKDOWN FLANGE AND TEST TO 5,000 PSI, NIPPLE UP BOP, NIPPLE UP CHOKE LINE. NIPPLE UP KILL LINE, NIPPLE UP ROT HEAD AND FLOW LINE. HOOK UP HYDRALICS ANF FUNCTION TEST BOP'S. INSTALL FLARE LINES.
	5:30 - 10:30	5.00	DRLPRO	15	A	P		HOLD SAFETY MEETING W/ SINGLE JACK TESTING. TEST BLIND, PIPE, UPPER AND LOWER KELLY VALVE, DART VALVE, FLOOR VALVE INSIDE OUTSIDE BOP VALVES, AND CHOKE MANIFOLD TO 5000 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST ANNULLAR TO 2500 PSI FOR 15 MIN AND 250 TEST FOR 5 MIN. TEST CSG TO 1500 PSI FOR 30 MIN. RUN WEAR BUSHIN. PERFORM ACCUM. FUNCTION TEST.
	10:30 - 12:30	2.00	DRLPRO	09	A	P		SLIP AND CUT DRILL LINE.
	12:30 - 18:00	5.50	DRLPRO	06	A	P		HOLD SAFETY MEETING W/ KIMZEY LAYDOWN CREW. RIG UP KIMZEY LAYDOWN TRUCK AND P/U BHA. TAG CEMENT 2140'. RIG DOWN KIMZEY CSG.
	18:00 - 19:00	1.00	DRLPRO	14	B	P		INSTALL ROT. RUBBER, CHECK GAS BUSTER AND MUD LINE FOR LEAKS, PERFORM PRESPUD INSPECTION.
	19:00 - 20:30	1.50	DRLPRO	02	F	P		DRILL CEMENT FROM 2140' TO 2288'. FLOAT 2208', SHOE @ 2253'
	20:30 - 0:00	3.50	DRLPRO	02	B			DRILL 2288'-2691' (403', 115'/HR) WOB 15-18, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1360/1050 DIFF 300, P/U-SO-ROT= 90,80,86 MW 8.3 VIS 27
2/25/2009	0:00 - 4:30	4.50	DRLPRO	02	B	P		DRILL 2691'- 3194' (503', 111'/HR) WOB 15-18, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1360/1050 DIFF 300, P/U-SO-ROT= 90,80,86 MW 8.3 VIS 27
	4:30 - 5:00	0.50	DRLPRO	10	D	P		SURVEY W/ MWD. 3156'= 1.8 DEGREES AZI 1.8
	5:00 - 15:00	10.00	DRLPRO	02	B	P		DRILL 3194' - 4400' (1206', 121'/HR) WOB 15-18, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1500/1200 DIFF 300, P/U-SO-ROT= 122-114-119 MW 8.7 VIS 32
	15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG SERVICE, FUNCTION BOP'S
	15:30 - 0:00	8.50	DRLPRO	02	B	P		DRILL 4400' -5257' (857', 101'/HR) WOB 15-18, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1600/1300 DIFF 300, P/U-SO-ROT= 135-120-130 MW 8.3 VIS 27 NO LOSSES.

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009
Project: UTAH-UINTAH	Site: NBU 1022-02D	Rig Name No: PROPETRO/, PIONEER 68/68
Event: DRILLING	Start Date: 1/26/2009	End Date: 3/4/2009
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/26/2009	0:00 - 13:30	13.50	DRLPRO	02	B	P		DRILL 5257'- 6109' (852', 63'/HR) WOB 18-20, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1750/1450 DIFF 300, P/U-SO-ROT= 150-138-144 MW 9.5 VIS 36 NO LOSSES.
	13:30 - 14:00	0.50	DRLPRO	07	A	P		RIG SERVICE. FUNCTION BOP'S.
	14:00 - 16:00	2.00	DRLPRO	02	B	P		DRILL 6109'- 6158' (49', 24.5'/HR) WOB 20-28, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1750/1500 DIFF 300, P/U-SO-ROT= 151-140-146 MW 9.5 VIS 36 NO LOSSES.
	16:00 - 16:30	0.50	DRLPRO	05	C	P		TRANSFER 40 BBLS OF 11.5 MUD AND PUMP FOR DRY JOB.
	16:30 - 17:30	1.00	DRLPRO	06	A	P		TRIP OUT OF HOLE. TIGHT HOLE 5120'. TRY TO WORK TIGHT HOLE. NO GO.
	17:30 - 18:30	1.00	DRLPRO	03	A	X		KELLY UP, BACK REAM THROUGH TIGHT HOLE. 5120' TO 5140' , CIRC. AND CLEAN OF IBS. PUMP 40 MORE BBLS OF 11.5 MUD FOR DRY JOB.
	18:30 - 21:30	3.00	DRLPRO	06	A	P		TRIP OUT OF HOLE. NO MORE TIGHT HOLE. LD IBS. CHECK MWD, CHECK FLOAT. CHECK MOTOR. ALL OK. INSPECT BIT #1.
	21:30 - 0:00	2.50	DRLPRO	06	A	P		MAKE UP BIT #2 FMHX 545 ZM, FILL PIPE COLLARS W/ WATER ON TRIP IN, BREAK CIRC @ 2300' TRIP IN HOLE
2/27/2009	0:00 - 2:00	2.00	DRLPRO	06	A	P		TRIP IN HOLE W/ BIT #2, NO TIGHT HOLE, NO LOSSES, NO GAIN. NO FILL.
	2:00 - 13:30	11.50	DRLPRO	02	B	P		DRILL 6158'-6735' (577', 50'/HR) WOB 15-18, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1800/1550 DIFF 250, P/U-SO-ROT= 156-130-148 MW 9.8 VIS 38 NO LOSSES.
	13:30 - 14:00	0.50	DRLPRO	07	A	P		RIG SERVICE, FUNCTION BOP'S
	14:00 - 0:00	10.00	DRLPRO	02	B	P		DRILL 6735'-7202' (467', 47'/HR) WOB 18-20, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1840/1590 DIFF 250, P/U-SO-ROT= 163-148-158 MW 10.2 VIS 37 NO LOSSES.
2/28/2009	0:00 - 2:30	2.50	DRLPRO	02	B	P		DRILL 7202'- 7305' (103',41'/HR) WOB 20, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1950/1700 DIFF 250, P/U-SO-ROT= 158-132-150 MW 10.3 VIS 38 NO LOSSES.
	2:30 - 3:00	0.50	DRLPRO	10	A	P		SURVEYS.
	3:00 - 14:00	11.00	DRLPRO	02	B	P		DRILL 7305'-7716' (411',37'/HR) WOB 22, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 2000/1750 DIFF 250, P/U-SO-ROT= 170-157-167 MW 10.7 VIS 38 NO LOSSES.
	14:00 - 14:30	0.50	DRLPRO	07	A	P		RIG SERVICE. FUNCTION BOP'S
	14:30 - 21:30	7.00	DRLPRO	02	B	P		DRILL 7716'-7920' (204',29'/HR) WOB 24, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 2050/1800 DIFF 250, P/U-SO-ROT= 175-155-168 MW 10.8 VIS 38 NO LOSSES.
	21:30 - 22:00	0.50	DRLPRO	05	C	P		MIX UP 50 BBLS 12.3# PILL AND PUMP.
	22:00 - 0:00	2.00	DRLPRO	06	A	P		TRIP OUT OF HOLE FOR BIT #2, TIGHT SPOT 6200'. TRIP OUT.
3/1/2009	0:00 - 3:30	3.50	DRLPRO	06	A	P		TRIP OUT OF HOLE FOR BIT #2, LD DRILLING JARS, TRIP OUT. CHECK MOTOR, EVALUATE BIT #2.
	3:30 - 8:30	5.00	DRLPRO	06	A	P		MAKE UP BIT #3 TRIP IN HOLE. FILL PIPE @ 2300'. TRIP TO BOTTOM. NO TIGHT HOLE. NO FILL.
	8:30 - 17:30	9.00	DRLPRO	02	B	P		DRILL 7920'-8421' (501', 56'/HR) WOB 15-18, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 2100/1850 DIFF 250, P/U-SO-ROT= 181-163-174 MW 11 VIS 42 NO LOSSES.

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009
Project: UTAH-UINTAH	Site: NBU 1022-02D	Rig Name No: PROPETRO/, PIONEER 68/68
Event: DRILLING	Start Date: 1/26/2009	End Date: 3/4/2009
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	17:30 - 18:30	1.00	DRLPRO	07	A	P		RIG SERVICE, CHANGE OUT ROT HEAD RUBBER.
	18:30 - 0:00	5.50	DRLPRO	02	B	P		DRILL 8421-8667' (246,45'/HR) TD EXTENDED TO 8740 AS NEEDED BY GEOLOGIST. WOB 15-18, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 2200/1950 DIFF 250, P/U-SO-ROT= 184-167-178 MW 11.6 VIS 42 NO LOSSES.
3/2/2009	0:00 - 2:00	2.00	DRLPRO	02	B	P		DRILL 8667'-8740' (73', 37'/HR) WOB 15-18, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF. 2250/2000 DIFF 250, P/U-SO-ROT= 185-165-175 MW 11.7 VIS 42 NO LOSSES. 5-10' FLARES ON CONNECTIONS.
	2:00 - 3:00	1.00	EVALPR	05	C	P		CIRC. BOTTOMS UP. MIX 40 BBLS 12.7# DRY JOB. PUMP.
	3:00 - 4:30	1.50	EVALPR	06	E	P		SHORT TRIP TO 7800', NO FLOW DURING TRIP.
	4:30 - 6:30	2.00	EVALPR	05	A	P		CONDITION MUD. 25'-30' FLARE BOTTOMS UP. MIX 85 BBLS 13.7# MUD AND PUMP.
	6:30 - 8:00	1.50	EVALPR	06	A	P		TRIP UP TO 7000'. NO FLOW. MIX 85 BBL 13.7# MUD WHILE TRIPPING.
	8:00 - 8:30	0.50	EVALPR	05	B	P		SPOT 85 BBL 13.7# PILL. @ 7000'
	8:30 - 13:30	5.00	EVALPR	06	A	P		TRIP OUT OF HOLE FOR LOGS. LD MUD MOTOR AND MWD. NO FLOW.
	13:30 - 19:00	5.50	EVALPR	11	D	P		HOLD SAFETY MEETING W/ HALIBURTON LOGGERS AND RUN TRIPLE COMBO LOGS DEPTH 8734'
	19:00 - 23:00	4.00	EVALPR	06	A	P		MAKE UP TRICONE AND BIT SUB. TRIP IN HOLE. FILL PIPE @ 2200'. TRIP IN HOLE TO 7000'
	23:00 - 0:00	1.00	EVALPR	05	A	P		CIRC HEAVY PILL. LOST 20 BBLS. WHILE HEAVY PILL CIRC TO SURFACE. 20' FLARE.
3/3/2009	0:00 - 1:00	1.00	EVALPR	06	A	P		TRIP IN HOLE TO 8734'
	1:00 - 2:00	1.00	EVALPR	05	C	P		HOLD SAFETY MEETING W/ KIMZEY LAYDOWN CREW.RIG UP LD TRUCK, WHILE CIRC OUT GAS. 20' FLARE. WASH DOWN TO 8740' MIX 80 BBL 13.7# DRY JOB AND PUMP.
	2:00 - 10:30	8.50	EVALPR	06	A	P		LAYDOWN DP, BREAK KELLY, LD BHA. NO FLOW THROUGH OUT TRIP. PULL WEAR BUSHING.
	10:30 - 12:00	1.50	CSG	12	A	P		HOLD SAFETY MEETING W/ KIMZEY CSG CREW. RIG UP CSG CREW. RIG UP SIDE BOARD FOR STABBER.
	12:00 - 18:00	6.00	CSG	12	C	P		RUN 206 JTS OF 4.5" 11.6# I-80 CSG TO 8733.8'. FLOAT COLLAR @ 8690', WASATCH MARKER JT @ 4242'. LAND W/ FLUTED MANDREL.
	18:00 - 19:00	1.00	CSG	05	D	P		RIG UP CEMENTING HEAD AND CIRC. DOWN CSG. 30' BOTTOMS UP FLARE. RIG DOWN KIMZEY CSG.
	19:00 - 22:00	3.00	CSG	12	E	P		HOLD SAFETY MEETING W/ BJ SERVICES. PSI TEST LINES TO 4500 PSI. PUMP 20 BBLS OF MUD CLEAN. PUMP 20 BBLS OF 8.3# H20 SPACER. PUMP 202 BBLS (385 SX) OF11.4# 2.95 YD, 17.3 GPS LEAD HI FILL. PUMP 279 BBLS (1200 SX) 14.3# 1.31 YD 5.9 GPS OF 50/50 POZ TAIL. DROP PLUG DISPLACE W/ 135.1 BBLS OF CLAYTREAT WATER W/ MAGNACIDE. 10 BBLS OF LEAD TO SURFACE 2380 PSI OF LIFT. BUMP PLUG 2850. FLOAT HELD. WASH OUT STACK. RIG DOWN BJ SERVICES.
	22:00 - 0:00	2.00	RDMO	14	A	P		NIPPLE DOWN, SET WELL HEAD PACKING AND TEST TO 5000 PSI W/ FMC. INSTALL NIGHT CAP. CLEAN PITS.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009	
Project: UTAH-UINTAH	Site: NBU 1022-02D		Rig Name No: PROPETRO/, PIONEER 68/68
Event: DRILLING	Start Date: 1/26/2009		End Date: 3/4/2009
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/4/2009	0:00 - 2:30	2.50	RDMO	14	A	P		NIPPLE DOWN STACK, AND CLEAN PITS. RELEASE RIG 02:30 03/04/2009

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009
Project: UTAH-UINTAH	Site: NBU 1022-02D	Rig Name No: LEED 698/698
Event: COMPLETION	Start Date: 10/8/2009	End Date:
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/18/2009	-							
10/9/2009	7:00 - 7:30	0.50	COMP	48		P		JSA- RUSU.
	7:30 - 19:00	11.50	COMP	31	I	P		RUSU. SPOT EQUIP. MU 3-7/8" MILL, BIT SUB, AND RIH AS MEAS AND PU 275-JTS 2-3/8" J-55 TBG TO TAG AT 8670. RU PWR SWIVEL. EST REV CIRC. D/O TO F.C. AT 8689' AND 11' CMT TO 8700 W/ 276-JTS IN. CIRC CLEAN. RD PWR SWIVEL. POOH AS LD 14-JTS AND SB 262-JTS. RD FLOOR. ND BOP. NU FRAC VAVLES. RU FLOOR. P-TEST CSG TO 7000#.
10/12/2009	7:00 - 7:15	0.25	COMP	48		P		JSA FRAC & PERF SAFETY

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009
Project: UTAH-UINTAH	Site: NBU 1022-02D	Rig Name No: LEED 698/698
Event: COMPLETION	Start Date: 10/8/2009	End Date:
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 17:00	9.75	COMP	30				SUPERIOR RIGGED UP & READY SCHLUMBERGER ARIVED @ 7:30 SPOT IN RU START IN HOLE W/ 1ST SHOOT @ STAGE #1] RIH W PERF GUN PERF MESA VERDE USING 3-3/8" EXPEND, 23 GRAM, 0.36" HOLE 8666'-8676'4 SPF' 90* PH 40 HOLES WHP=1100#, BREAK DWN PERFS @ 4386#, INJ PSI=4800, INJ RATE=47, ISIP=3026#, FG=.78, PUMPED 2279 BBLS SLK WTR W/ 79590# 30/50 MESH, W/5000# RESIN COAT IN TAIL. ISIP=3144#, FG= .80, AR=47.7, AP=4898#,MR=48.6,MP=5710#, NPI=118#, W/28/40 CALC PERFS OPEN 70%. STAGE #2] P/U RIH W/ HALLI 8K CBP & PERF GUN SET CBP @8370' PERF MESA VERDE USING 3-3/8" EXPEND GUNS, 23 GRM,0.36" HOLE 8334'-8340' 4 SPF, 90* PH, 24 HOLES 8286'-8288' 3 SPF, 120* PH 6 HOLES 8239'-8241' 3 SPF, 120* PH, 6 HOLES 8190'-8192' 3 SPF, 120* PH 6 HOLES WHP=1338#, BREAK DWN PERFS @ 2855#, INJ PSI=4700, INJ RATE=48, ISIP=2183#, FG=.70, PUMPED 2211.9 BBLS SLK WTR W/ 76832# 30/50 MESH, W/5000# RESIN COAT IN TAIL. ISIP=2618#, FG= .75, AR=48.1, AP=4466#,MR=50.2,MP=4286#, NPI=435#, W/42/42 CALC PERFS OPEN 100%. STAGE #3] P/U RIH W/ HALLI 8K CBP & PERF GUN SET CBP @8370' PERF MESA VERDE USING 3-3/8" EXPEND GUNS, 23 GRM,0.36" HOLE. 8052'-8054' 4 SPF, 90* PH, 8 HOLES 8009'-8011' 4 SPF 90* PH, 8 HOLES 7994'-7996' 3 SPF 120* PH 6 HOLES 7952'-7955' 4 SPF, 90* PH 12 HOLES 7868'-7871' 3 SPF, 120* PH 9 HOLES WHP=960#, BREAK DWN PERFS @ 2370#, INJ PSI=5100, INJ RATE=45, ISIP=2240#, FG=.71, PUMPED 1715 BBLS SLK WTR W/ 47953# 30/50 MESH, ISIP=2550#, FG= .75, AR=44, AP=4289#,MR=49.7,MP=5413#, NPI=310#, W/43/43 CALC PERFS OPEN 100%. , LOST 2 PUMP TRUCKS DUE TO LOST VALVES RATE SLOWED TO LEVEL OF NOT CARING SAND WENT TO FLUSH LOST 3 TRUCK BROKE MANIFOLD SHUT DWN TIED 2 TRUCKS TO BLENDER FLUSHED SAND TO PERFS SHUT DWN 47953# SAND IN TO 3RD STAGE SDFN TO MAKE REPAIRS FINISH STAGE IN AM.
10/13/2009	7:00 - 7:15	0.25	COMP	48		P		JSA FRAC & PERF SAFETY

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009
Project: UTAH-UINTAH	Site: NBU 1022-02D	Rig Name No: LEED 698/698
Event: COMPLETION	Start Date: 10/8/2009	End Date:
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 14:00	6.75	COMP	30		P		2ND 1/2 OF STAGE #3 WHP=1338#, BREAK DWN PERFS @ 2855#, INJ PSI=4700, INJ RATE=48, ISIP=2183#, FG=.70, PUMPED 2211.9 BBLS SLK WTR W/ 76832# 30/50 MESH, . ISIP=2618#, FG= .75, AR=48.1, AP=4466#,MR=50.2,MP=4286#, NPI=435#, W/42/42 CALC PERFS OPEN 100%. STAGE #4] PU RIH WHALLI 8K CBP & PERF GUN. SET CBP@7791' PERF MESA VERDE USING 3-3/8" EXPEND, 23 GRAM, 0.36" HOLE. 7758'-7761' 4 SPF, 90* PH 12 HOLES 7642'-7645' 3 SPF, 120* PH 9 HOLES 7582'-7584' 4 SPF, 90* PH 8 HOLES 7473'-7475', 2 SPF, 180* PH 4 HOLES 7444'-7446', 2 SPF, 180* PH 4 HOLES WHP=1395#, BREAK DWN PERFS @ 3420#, INJ PSI=6144, INJ RATE=37.5, ISIP=2318#, FG=.74, PUMPED 2662 BBLS SLK WTR W/ 112867# 30/50 MESH, W/5000# RESIN COAT IN TAIL. ISIP=2257#, FG= .73, AR=50.1, AP=4550#,MR=50.5,MP=6195#, NPI=-65#, W/37/37 CALC PERFS OPEN 100%. PU RIH W/ HALLI 8K CBP , SET FOR KILL PLUG @ 7394' RDMO SCHLUMBERGER WIRE LINE & SUPERIOR FRAC EQUIP ND FRAC VALVES NU BOPS RU TUBING EQUIP PU 3-7/8" BIT W/ POBS PKG RIH TAG KILL PLUG PU PWR SWIVEL, PREP TO DRILL IN AM SDFN.
10/14/2009	7:00 - 7:15	0.25		48				JSA DRILL PLUGS
	7:15 - 17:00	9.75	COMP	30		P		OPEN WELL 0 PSI EST CIRC PLUG #1] TAG SAND @ 7374' (20' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7394' IN 7 MIN W/ 200# INCREASE PLUG #2] CONTINUE TO RIH TAG SAND @ 7761' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @7791' IN 12 MIN W/ 100# INCREASE PLUG #3] CONTINUE TO RIH TAG SAND @ 8054'(30' FILL) C/O & DRILL THRU HALLI 8K CBP 8084' IN 7 MIN W/ 50# INCREASE PLUG #4] CONTINUE TO RIH TAG SAND @ 8335' (35" FILL) C/O & DRILL THRU HALLI 8K CBP 8370' IN 7 MIN W/ 0 INCREASE CONTINUE TO RIH TAG SAND @ 8665' C/O & DRILL TO PBTD @ 8700' CIRC CLEAN RD SWVL LD 18 JNTS LAND TUB ON HANGER W/ 258 JNTS OF 2-3/8" J-55 EOT @ 8150.49' DROP BALL RD FLOOR & TUB EQUIP ND BOPS NU WELL HEAD NU RIG PMP, PUMP OFF BIT SUB @ 2500# SHUT WELL IN 30 MIN TURN WELL OVER TO FBC RIG DWN MOVE TO NBU 1022-2F
10/15/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2700#, TP 2100#, 20/64" CK, 55 BWPH, MED SAND, LIGHT GAS TTL BBLS RECOVERED: 3010 BBLS LEFT TO RECOVER: 6916

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009
Project: UTAH-UINTAH	Site: NBU 1022-02D	Rig Name No: LEED 698/698
Event: COMPLETION	Start Date: 10/8/2009	End Date:
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/16/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3350#, TP 2350#, 20/64" CK, 35 BWPH, - SAND, HEAVY GAS TTL BBLS RECOVERED: 3930 BBLS LEFT TO RECOVER: 5996
	12:45 -		PROD	50				WELL TURNED TO SALE @ 1245 HR ON 10/16/09 - FTP 2400#, CP 3275#, 2.2 MCFD, 30 BWPD, 16/64 CK
10/17/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3250#, TP 2500#, 16/64" CK,25BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 4570 BBLS LEFT TO RECOVER: 5356
10/18/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3100#, TP 2450#, 16/64" CK, 15 BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 5055 BBLS LEFT TO RECOVER: 4871
10/19/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3000#, TP 2375#, 16/64" CK, 15 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 5415 BBLS LEFT TO RECOVER: 4511

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22651
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: 891008900A
8. WELL NAME and NUMBER: NBU 1022-02D
9. API NUMBER: 4304739955
10 FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 2 10S 22E
12. COUNTY: UINTAH
13. STATE: UTAH

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

3. ADDRESS OF OPERATOR: P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217

PHONE NUMBER: (720) 929-6100

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: NWNW 1090 FNL & 990 FWL 2-10S-22E
AT TOP PRODUCING INTERVAL REPORTED BELOW:
AT TOTAL DEPTH: 1338 FNL 1034 FWL SWNW S-2 T10S R22E

14. DATE SPUDDED: 1/17/2009
15. DATE T.D. REACHED: 3/2/2009
16. DATE COMPLETED: 10/16/2009 ABANDONED ☐ READY TO PRODUCE ☑
17. ELEVATIONS (DF, RKB, RT, GL): 4975' GL

18. TOTAL DEPTH: MD 8,740 TVD 8,735
19. PLUG BACK T.D.: MD 8,690 TVD 8685
20. IF MULTIPLE COMPLETIONS, HOW MANY? *
21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
BHV-DSN_SDL_ACRT-CBL

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☑ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 J-55	36#		2,249		675			
7 7/8"	4 1/2 I-80	11.6#		8,733		1585			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,150							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) MESAVERDE	7,444	8,676		
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,444 8,676	0.36	162	Open ☑ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7,444-8,676	PMP 9,905 BBLS SLICK H20 & 366,885 LBS 30/50 SD.

RECEIVED
NOV 19 2009
DIV. OF OIL, GAS & MINING

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: PROD

(5/2000) **(CONTINUED ON BACK)**

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
10/16/2009	10/19/2009	24		40	2,436	320	FLOWING

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
14/64	683	2,982					40	2,436	320	PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,147				
MAHOGANY	1,895				
WASATCH	4,198	6,474			
MESAVERDE	6,528	8,689			

35. ADDITIONAL REMARKS (Include plugging procedure)

ATTACHED TO THIS COMPLETION REPORT IS THE CHRONOLOGICAL WELL HISTORY..

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDY LYTLE TITLE REGULATORY ANALYST

SIGNATURE DATE 11/17/2009

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 1022-2D	**Wellbore No.**	OH
Well Name	NBU 1022-2D	**Common Name**	NBU 1022-2D
Project	UTAH-UINTAH	**Site**	NBU 1022-2D
Vertical Section Azimuth		**North Reference**	True
Origin N/S		**Origin E/W**	
Spud Date	1/26/2009	**UWI**	0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/9 90.00/0/0
Active Datum	RKB @4,993.00ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	**Company**	PRO SHOT
Started	2/24/2009	**Ended**	
Tool Name	MWD	**Engineer**	

2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
0.00	0.00	0.00	0.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2/24/2009	Tie On	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/2009	NORMAL	2,239.00	1.70	157.20	2,238.67	-30.62	12.87	-30.62	0.08	0.08	0.00	157.20
	NORMAL	3,156.00	1.80	187.00	3,155.26	-57.45	16.39	-57.45	0.10	0.01	3.25	98.76
2/25/2009	NORMAL	4,261.00	1.80	194.20	4,259.72	-91.50	10.01	-91.50	0.02	0.00	0.65	93.60
2/26/2009	NORMAL	5,274.00	2.00	194.00	5,272.16	-124.08	1.84	-124.08	0.02	0.02	-0.02	-2.00
2/27/2009	NORMAL	6,246.00	2.10	151.00	6,243.59	-156.11	6.37	-156.11	0.15	0.01	-4.42	-107.94
2/28/2009	NORMAL	7,262.00	1.90	145.20	7,258.98	-186.22	25.00	-186.22	0.03	-0.02	-0.57	-137.53
3/2/2009	NORMAL	8,698.00	3.40	172.20	8,693.45	-247.97	44.37	-247.97	0.13	0.10	1.88	53.79

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009	
Project: UTAH-UINTAH	Site: NBU 1022-02D		Rig Name No: PROPETRO/, PIONEER 68/68
Event: DRILLING	Start Date: 1/26/2009		End Date: 3/4/2009
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/26/2009	0:30 - 12:00	11.50	DRLSUR	02		P		AIR SPUD 00:30 1/26/2009 DRILL F/ 40' TO 750'. WITH AIR HAMMER. NO WATER.
	12:00 - 0:00	12.00	DRLSUR	02		P		DRILL F 750' TO 1110' W/ AIR HAMMER (NO WATER)
1/27/2009	0:00 - 12:00	12.00	DRLSUR	02		P		DRILL F/ 1110' TO 1440' BIT TRIP @ 1380' NO WATER
	12:00 - 0:00	12.00	DRLSUR	02		P		DRILL F/ 1440' TO 1530' WATER @ 1470' SURVEY @1530'= 1 DEGREE
1/28/2009	0:00 - 5:30	5.50	DRLSUR	02		P		DRILL F/ 1530' TO 1650'. CIRC W/ SKID PUMP.
	5:30 - 0:00	18.50	DRLSUR	19	A	P		PUMP PROBLEMS. STUCK PIPE. REGAIN CIRC. BUT WAS STILL UNABLE TO UNSTICK PIPE. FREE POINT. FREE TO BIT. BACK OUT 1 COLLAR ABOVE BIT. TRIP OUT AND PICK UP WASH PIPE. TRIP DOWN. UNABLE TO GET DOWN TO FISH.
1/29/2009	0:00 - 6:00	6.00	DRLSUR	19	A	Z		TRIP IN HOLE W/ WASH PIPE, WASH PIPE WOULD NOT WASH DOWN 100' ABOVE FISH. TRIP OUT W/ WASH PIPE.
	6:00 - 12:00	6.00	DRLSUR	19	A	Z		TRIP OUT W/ WASH PIPE, AND PICK UP 12 1/4 TRI-CONE AND WASH TO TOP OF FISH, TRIP OUT W/ TRICONE
	12:00 - 18:00	6.00	DRLSUR	19	A	Z		TRIP OUT OF HOLE, P/U 60' WASH PIPE AND TRIP IN, BRIDGE OUT 40' ABOVE FISH, START WASHING DOWN TO FISH.
	18:00 - 0:00	6.00	DRLSUR	19	A	Z		WASH DOWN TO FISH AND OVER FISH.
1/30/2009	0:00 - 6:00	6.00	DRLSUR	19	A	Z		WASH OVER FISH, TRIP OUT OF HOLE W/ WASH PIPE. LD WASH PIPE.
	6:00 - 12:00	6.00	DRLSUR	19	A	Z		P/U OVERSHOT AND TRIP IN HOLE, CATCH FISH.
	12:00 - 18:00	6.00	DRLSUR	19	A	Z		TRIP OUT OF HOLE W/ FISH, LD FISH, AND FISHING TOOLS.
	18:00 - 0:00	6.00	DRLSUR	02		P		DRILL F/ 1650' TO 1710'. PUMP W/ SKID PUMP TO CONTROL WATER GAIN.
1/31/2009	0:00 - 12:00	12.00	DRLSUR	02		P		DRILL F/ 1710' TO 1950' CIRC W/ SKID PUMP
	12:00 - 0:00	12.00	DRLSUR	02		P		DRILL F/ 1950' TO 2160' SURVEY 2010'= 2 1/2 DEGREES. REDUCE WT ON BIT. CIRC W/ SKID PUMP
2/1/2009	0:00 - 8:00	8.00	DRLSUR	02		P		DRILL F/ 2160' TO 2270' TD 08:00 2/1/2009 SURVEY 2270'= 1.5 DEGREES
	8:00 - 12:00	4.00	DRLSUR	06		P		CIRC AND CLEAN HOLE, LDDS.
	12:00 - 17:00	5.00	DRLSUR	12		P		RUN 52 JTS OF 9-5/8" OF 36#, J-55, LT&C TO THE DEPTH 2231.9'
	17:00 - 18:30	1.50	DRLSUR	12		P		PUMP 350 SX (72 BBLS) 2% CAL 15.8#, 1.15 YD, 5 GAL/SX TAIL CEMENT. DISPLACE W/ 169 BBLS OF H20, 300 PSI LIFT. BUMP PLUG 800 PSI. FLOAT HELD.
	18:30 - 20:30	2.00	DRLSUR	12		P		TOP #1 PUMP 100 SX (20 BBLS) SX 4% CAL 15.8#, 1.15 YD, 5 GAL/SX DOWN BACK SIDE
	20:30 - 21:00	0.50	DRLSUR	12		P		TOP#2 PUMP 225 SX (46 BBLS) SX 2% CAL 15.8#, 1.15 YD, 5 GAL/SX DOWN BACKSIDE CEMENT TO SURFACE AND STAYED.
2/22/2009	13:00 - 0:00	11.00	RDMO	01	E	P		RIG DOWN RIG AND READY FOR RIG MOVE. RIG MOVE IS 1/2 MILE NORTH.
2/23/2009	0:00 - 7:00	7.00	RDMO	01	E	P		RIG DOWN RIG AND READY FOR TRUCK.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009	
Project: UTAH-UINTAH	Site: NBU 1022-02D		Rig Name No: PROPETRO/, PIONEER 68/68
Event: DRILLING	Start Date: 1/26/2009		End Date: 3/4/2009
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 11:00	4.00	RDMO	01	A	P		HOLD SAFETY MEETING W/ L&S TRUCKING, J C CRANE, AND PIONEER DRILLING ABOUT MOVING RIG. BRUCE TAYLOR SAFETY HAND ATTENDED. TEAR DOWN RIG AND MOVE RIG 1/2 MILE TO LOCATION 7 TRUCKS. 3 SWAMPERS, 1 TRUCK PUSHER, 2 FORKLIFTS, 1 CRANE OPERATOR, 3 CRANE SWAMPERS. 6 HANDS, 1 TOOL PUSHER.
	11:00 - 15:00	4.00	MIRU	01	B	P		MOVE IN AND RIG UP RIG. SPOT ENTIRE RIG. @ 13:00 HELD SAFETY MEETING W/ MOUNTAIN WEST. AND MOUNTAIN WEST STARTED MOVING CAMPS. TRUCKS RELEASE @ 15:00. MOUNTAIN WEST RELEASED @ 16:00. JC CRANE RELEASE @ 16:00. HALF MASS DERRICK AND RAISE SUB
	15:00 - 0:00	9.00	MIRU	01	B	P		RAISE DERRICK AND RIG UP RIG. RIG 90 % RIGGED UP.
2/24/2009	0:00 - 1:00	1.00	MIRU	01	B	P		RIG UP RIG.
	1:00 - 5:30	4.50	DRLPRO	14	A	P		INSTALL FMC LOCKDOWN FLANGE AND TEST TO 5,000 PSI, NIPPLE UP BOP, NIPPLE UP CHOKE LINE. NIPPLE UP KILL LINE, NIPPLE UP ROT HEAD AND FLOW LINE. HOOK UP HYDRALICS ANF FUNCTION TEST BOP'S. INSTALL FLARE LINES.
	5:30 - 10:30	5.00	DRLPRO	15	A	P		HOLD SAFETY MEETING W/ SINGLE JACK TESTING. TEST BLIND, PIPE, UPPER AND LOWER KELLY VALVE, DART VALVE, FLOOR VALVE INSIDE OUTSIDE BOP VALVES, AND CHOKE MANIFOLD TO 5000 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST ANNULLAR TO 2500 PSI FOR 15 MIN AND 250 TEST FOR 5 MIN. TEST CSG TO 1500 PSI FOR 30 MIN. RUN WEAR BUSHIN. PERFORM ACCUM. FUNCTION TEST.
	10:30 - 12:30	2.00	DRLPRO	09	A	P		SLIP AND CUT DRILL LINE.
	12:30 - 18:00	5.50	DRLPRO	06	A	P		HOLD SAFETY MEETING W/ KIMZEY LAYDOWN CREW. RIG UP KIMZEY LAYDOWN TRUCK AND P/U BHA. TAG CEMENT 2140'. RIG DOWN KIMZEY CSG.
	18:00 - 19:00	1.00	DRLPRO	14	B	P		INSTALL ROT. RUBBER, CHECK GAS BUSTER AND MUD LINE FOR LEAKS, PERFORM PRESPUD INSPECTION.
	19:00 - 20:30	1.50	DRLPRO	02	F	P		DRILL CEMENT FROM 2140' TO 2288'. FLOAT 2208', SHOE @ 2253'
	20:30 - 0:00	3.50	DRLPRO	02	B			DRILL 2288'-2691' (403', 115'/HR) WOB 15-18, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1360/1050 DIFF 300, P/U-SO-ROT= 90,80,86 MW 8.3 VIS 27
2/25/2009	0:00 - 4:30	4.50	DRLPRO	02	B	P		DRILL 2691'- 3194' (503', 111'/HR) WOB 15-18, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1360/1050 DIFF 300, P/U-SO-ROT= 90,80,86 MW 8.3 VIS 27
	4:30 - 5:00	0.50	DRLPRO	10	D	P		SURVEY W/ MWD. 3156'= 1.8 DEGREES AZI 1.8
	5:00 - 15:00	10.00	DRLPRO	02	B	P		DRILL 3194' - 4400' (1206', 121'/HR) WOB 15-18, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1500/1200 DIFF 300, P/U-SO-ROT= 122-114-119 MW 8.7 VIS 32
	15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG SERVICE, FUNCTION BOP'S
	15:30 - 0:00	8.50	DRLPRO	02	B	P		DRILL 4400' -5257' (857', 101'/HR) WOB 15-18, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1600/1300 DIFF 300, P/U-SO-ROT= 135-120-130 MW 8.3 VIS 27 NO LOSSES.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009	
Project: UTAH-UINTAH	Site: NBU 1022-02D		Rig Name No: PROPETRO/, PIONEER 68/68
Event: DRILLING	Start Date: 1/26/2009		End Date: 3/4/2009
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/26/2009	0:00 - 13:30	13.50	DRLPRO	02	B	P		DRILL 5257'- 6109' (852', 63'/HR) WOB 18-20, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1750/1450 DIFF 300, P/U-SO-ROT= 150-138-144 MW 9.5 VIS 36 NO LOSSES.
	13:30 - 14:00	0.50	DRLPRO	07	A	P		RIG SERVICE. FUNCTION BOP'S.
	14:00 - 16:00	2.00	DRLPRO	02	B	P		DRILL 6109'- 6158' (49', 24.5'/HR) WOB 20-28, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1750/1500 DIFF 300, P/U-SO-ROT= 151-140-146 MW 9.5 VIS 36 NO LOSSES.
	16:00 - 16:30	0.50	DRLPRO	05	C	P		TRANSFER 40 BBLS OF 11.5 MUD AND PUMP FOR DRY JOB.
	16:30 - 17:30	1.00	DRLPRO	06	A	P		TRIP OUT OF HOLE. TIGHT HOLE 5120'. TRY TO WORK TIGHT HOLE. NO GO.
	17:30 - 18:30	1.00	DRLPRO	03	A	X		KELLY UP, BACK REAM THROUGH TIGHT HOLE. 5120' TO 5140' , CIRC. AND CLEAN OF IBS. PUMP 40 MORE BBLS OF 11.5 MUD FOR DRY JOB.
	18:30 - 21:30	3.00	DRLPRO	06	A	P		TRIP OUT OF HOLE. NO MORE TIGHT HOLE. LD IBS. CHECK MWD, CHECK FLOAT. CHECK MOTOR. ALL OK. INSPECT BIT #1.
	21:30 - 0:00	2.50	DRLPRO	06	A	P		MAKE UP BIT #2 FMHX 545 ZM, FILL PIPE COLLARS W/ WATER ON TRIP IN, BREAK CIRC @ 2300' TRIP IN HOLE
2/27/2009	0:00 - 2:00	2.00	DRLPRO	06	A	P		TRIP IN HOLE W/ BIT #2, NO TIGHT HOLE, NO LOSSES, NO GAIN. NO FILL.
	2:00 - 13:30	11.50	DRLPRO	02	B	P		DRILL 6158'-6735' (577', 50'/HR) WOB 15-18, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1800/1550 DIFF 250, P/U-SO-ROT= 156-130-148 MW 9.8 VIS 38 NO LOSSES.
	13:30 - 14:00	0.50	DRLPRO	07	A	P		RIG SERVICE, FUNCTION BOP'S
	14:00 - 0:00	10.00	DRLPRO	02	B	P		DRILL 6735'-7202' (467', 47'/HR) WOB 18-20, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1840/1590 DIFF 250, P/U-SO-ROT= 163-148-158 MW 10.2 VIS 37 NO LOSSES.
2/28/2009	0:00 - 2:30	2.50	DRLPRO	02	B	P		DRILL 7202'- 7305' (103',41'/HR) WOB 20, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 1950/1700 DIFF 250, P/U-SO-ROT= 158-132-150 MW 10.3 VIS 38 NO LOSSES.
	2:30 - 3:00	0.50	DRLPRO	10	A	P		SURVEYS.
	3:00 - 14:00	11.00	DRLPRO	02	B	P		DRILL 7305'-7716' (411',37'/HR) WOB 22, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 2000/1750 DIFF 250, P/U-SO-ROT= 170-157-167 MW 10.7 VIS 38 NO LOSSES.
	14:00 - 14:30	0.50	DRLPRO	07	A	P		RIG SERVICE. FUNCTION BOP'S
	14:30 - 21:30	7.00	DRLPRO	02	B	P		DRILL 7716'-7920' (204',29'/HR) WOB 24, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 2050/1800 DIFF 250, P/U-SO-ROT= 175-155-168 MW 10.8 VIS 38 NO LOSSES.
	21:30 - 22:00	0.50	DRLPRO	05	C	P		MIX UP 50 BBLS 12.3# PILL AND PUMP.
	22:00 - 0:00	2.00	DRLPRO	06	A	P		TRIP OUT OF HOLE FOR BIT #2, TIGHT SPOT 6200'. TRIP OUT.
3/1/2009	0:00 - 3:30	3.50	DRLPRO	06	A	P		TRIP OUT OF HOLE FOR BIT #2, LD DRILLING JARS, TRIP OUT. CHECK MOTOR, EVALUATE BIT #2.
	3:30 - 8:30	5.00	DRLPRO	06	A	P		MAKE UP BIT #3 TRIP IN HOLE. FILL PIPE @ 2300'. TRIP TO BOTTOM. NO TIGHT HOLE. NO FILL.
	8:30 - 17:30	9.00	DRLPRO	02	B	P		DRILL 7920'-8421' (501', 56'/HR) WOB 15-18, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 2100/1850 DIFF 250, P/U-SO-ROT= 181-163-174 MW 11 VIS 42 NO LOSSES.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009
Project: UTAH-UINTAH	Site: NBU 1022-02D	Rig Name No: PROPETRO/, PIONEER 68/68
Event: DRILLING	Start Date: 1/26/2009	End Date: 3/4/2009
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	17:30 - 18:30	1.00	DRLPRO	07	A	P		RIG SERVICE, CHANGE OUT ROT HEAD RUBBER.
	18:30 - 0:00	5.50	DRLPRO	02	B	P		DRILL 8421-8667' (246,45'/HR) TD EXTENDED TO 8740 AS NEEDED BY GEOLOGIST. WOB 15-18, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 2200/1950 DIFF 250, P/U-SO-ROT= 184-167-178 MW 11.6 VIS 42 NO LOSSES.
3/2/2009	0:00 - 2:00	2.00	DRLPRO	02	B	P		DRILL 8667'-8740' (73', 37'/HR) WOB 15-18, SPM= 125, GPM=473, MOTOR RPM=76, SPP ON/OFF 2250/2000 DIFF 250, P/U-SO-ROT= 185-165-175 MW 11.7 VIS 42 NO LOSSES. 5-10' FLARES ON CONNECTIONS.
	2:00 - 3:00	1.00	EVALPR	05	C	P		CIRC. BOTTOMS UP. MIX 40 BBLS 12.7# DRY JOB. PUMP.
	3:00 - 4:30	1.50	EVALPR	06	E	P		SHORT TRIP TO 7800', NO FLOW DURING TRIP.
	4:30 - 6:30	2.00	EVALPR	05	A	P		CONDITION MUD. 25'-30' FLARE BOTTOMS UP. MIX 85 BBLS 13.7# MUD AND PUMP.
	6:30 - 8:00	1.50	EVALPR	06	A	P		TRIP UP TO 7000'. NO FLOW. MIX 85 BBL 13.7# MUD WHILE TRIPPING.
	8:00 - 8:30	0.50	EVALPR	05	B	P		SPOT 85 BBL 13.7# PILL. @ 7000'
	8:30 - 13:30	5.00	EVALPR	06	A	P		TRIP OUT OF HOLE FOR LOGS. LD MUD MOTOR AND MWD. NO FLOW.
	13:30 - 19:00	5.50	EVALPR	11	D	P		HOLD SAFETY MEETING W/ HALIBURTON LOGGERS AND RUN TRIPLE COMBO LOGS DEPTH 8734'
	19:00 - 23:00	4.00	EVALPR	06	A	P		MAKE UP TRICONE AND BIT SUB. TRIP IN HOLE. FILL PIPE @ 2200'. TRIP IN HOLE TO 7000'
	23:00 - 0:00	1.00	EVALPR	05	A	P		CIRC HEAVY PILL. LOST 20 BBLS. WHILE HEAVY PILL CIRC TO SURFACE. 20' FLARE.
3/3/2009	0:00 - 1:00	1.00	EVALPR	06	A	P		TRIP IN HOLE TO 8734'
	1:00 - 2:00	1.00	EVALPR	05	C	P		HOLD SAFETY MEETING W/ KIMZEY LAYDOWN CREW.RIG UP LD TRUCK, WHILE CIRC OUT GAS. 20' FLARE. WASH DOWN TO 8740' MIX 80 BBL 13.7# DRY JOB AND PUMP.
	2:00 - 10:30	8.50	EVALPR	06	A	P		LAYDOWN DP, BREAK KELLY, LD BHA. NO FLOW THROUGH OUT TRIP. PULL WEAR BUSHING.
	10:30 - 12:00	1.50	CSG	12	A	P		HOLD SAFETY MEETING W/ KIMZEY CSG CREW. RIG UP CSG CREW. RIG UP SIDE BOARD FOR STABBER.
	12:00 - 18:00	6.00	CSG	12	C	P		RUN 206 JTS OF 4.5" 11.6# I-80 CSG TO 8733.8'. FLOAT COLLAR @ 8690', WASATCH MARKER JT @ 4242'. LAND W/ FLUTED MANDREL.
	18:00 - 19:00	1.00	CSG	05	D	P		RIG UP CEMENTING HEAD AND CIRC. DOWN CSG. 30' BOTTOMS UP FLARE. RIG DOWN KIMZEY CSG.
	19:00 - 22:00	3.00	CSG	12	E	P		HOLD SAFETY MEETING W/ BJ SERVICES. PSI TEST LINES TO 4500 PSI. PUMP 20 BBLS OF MUD CLEAN. PUMP 20 BBLS OF 8.3# H20 SPACER. PUMP 202 BBLS (385 SX) OF11.4# 2.95 YD, 17.3 GPS LEAD HI FILL. PUMP 279 BBLS (1200 SX) 14.3# 1.31 YD 5.9 GPS OF 50/50 POZ TAIL. DROP PLUG DISPLACE W/ 135.1 BBLS OF CLAYTREAT WATER W/ MAGNACIDE. 10 BBLS OF LEAD TO SURFACE 2380 PSI OF LIFT. BUMP PLUG 2850. FLOAT HELD. WASH OUT STACK. RIG DOWN BJ SERVICES.
	22:00 - 0:00	2.00	RDMO	14	A	P		NIPPLE DOWN, SET WELL HEAD PACKING AND TEST TO 5000 PSI W/ FMC. INSTALL NIGHT CAP. CLEAN PITS.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009	
Project: UTAH-UINTAH	Site: NBU 1022-02D		Rig Name No: PROPETRO/, PIONEER 68/68
Event: DRILLING	Start Date: 1/26/2009		End Date: 3/4/2009
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/4/2009	0:00 - 2:30	2.50	RDMO	14	A	P		NIPPLE DOWN STACK, AND CLEAN PITS. RELEASE RIG 02:30 03/04/2009

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009	
Project: UTAH-UINTAH	Site: NBU 1022-02D		Rig Name No: LEED 698/698
Event: COMPLETION	Start Date: 10/9/2009		End Date: 10/14/2009
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/18/2009	-							
10/9/2009	7:00 - 7:30	0.50	COMP	48		P		JSA- RUSU.
	7:30 - 19:00	11.50	COMP	31	I	P		RUSU. SPOT EQUIP. MU 3-7/8" MILL, BIT SUB, AND RIH AS MEAS AND PU 275-JTS 2-3/8" J-55 TBG TO TAG AT 8670. RU PWR SWIVEL. EST REV CIRC. D/O TO F.C. AT 8689' AND 11' CMT TO 8700 W/ 276-JTS IN. CIRC CLEAN. RD PWR SWIVEL. POOH AS LD 14-JTS AND SB 262-JTS. RD FLOOR. ND BOP. NU FRAC VAVLES. RU FLOOR. P-TEST CSG TO 7000#.
10/12/2009	7:00 - 7:15	0.25	COMP	48		P		JSA FRAC & PERF SAFETY

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009
Project: UTAH-UINTAH	Site: NBU 1022-02D	Rig Name No: LEED 698/698
Event: COMPLETION	Start Date: 10/9/2009	End Date: 10/14/2009
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 17:00	9.75	COMP	30				SUPERIOR RIGGED UP & READY SCHLUMBERGER ARIVED @ 7:30 SPOT IN RU START IN HOLE W/ 1ST SHOOT @ STAGE #1] RIH W PERF GUN PERF MESA VERDE USING 3-3/8" EXPEND, 23 GRAM, 0.36" HOLE 8666'-8676'4 SPF' 90* PH 40 HOLES WHP=1100#, BREAK DWN PERFS @ 4386#, INJ PSI=4800, INJ RATE=47, ISIP=3026#, FG=.78, PUMPED 2279 BBLS SLK WTR W/ 79590# 30/50 MESH, W/5000# RESIN COAT IN TAIL. ISIP=3144#, FG= .80, AR=47.7, AP=4898#,MR=48.6,MP=5710#, NPI=118#, W/28/40 CALC PERFS OPEN 70%. STAGE #2] P/U RIH W/ HALLI 8K CBP & PERF GUN SET CBP @8370' PERF MESA VERDE USING 3-3/8" EXPEND GUNS, 23 GRM,0.36" HOLE 8334'-8340' 4 SPF, 90* PH, 24 HOLES 8286'-8288' 3 SPF, 120* PH 6 HOLES 8239'-8241' 3 SPF, 120* PH, 6 HOLES 8190'-8192' 3 SPF, 120* PH 6 HOLES WHP=1338#, BREAK DWN PERFS @ 2855#, INJ PSI=4700, INJ RATE=48, ISIP=2183#, FG=.70, PUMPED 2211.9 BBLS SLK WTR W/ 76832# 30/50 MESH, W/5000# RESIN COAT IN TAIL. ISIP=2618#, FG= .75, AR=48.1, AP=4466#,MR=50.2,MP=4286#, NPI=435#, W/42/42 CALC PERFS OPEN 100%. STAGE #3] P/U RIH W/ HALLI 8K CBP & PERF GUN SET CBP @8370' PERF MESA VERDE USING 3-3/8" EXPEND GUNS, 23 GRM,0.36" HOLE. 8052'-8054' 4 SPF, 90* PH, 8 HOLES 8009'-8011' 4 SPF 90* PH, 8 HOLES 7994'-7996' 3 SPF 120* PH 6 HOLES 7952'-7955' 4 SPF, 90* PH 12 HOLES 7868'-7871' 3 SPF, 120* PH 9 HOLES WHP=960#, BREAK DWN PERFS @ 2370#, INJ PSI=5100, INJ RATE=45, ISIP=2240#, FG=.71, PUMPED 1715 BBLS SLK WTR W/ 47953# 30/50 MESH, ISIP=2550#, FG= .75, AR=44, AP=4289#,MR=49.7,MP=5413#, NPI=310#, W/43/43 CALC PERFS OPEN 100%. , LOST 2 PUMP TRUCKS DUE TO LOST VALVES RATE SLOWED TO LEVEL OF NOT CARING SAND WENT TO FLUSH LOST 3 TRUCK BROKE MANIFOLD SHUT DWN TIED 2 TRUCKS TO BLENDER FLUSHED SAND TO PERFS SHUT DWN 47953# SAND IN TO 3RD STAGE SDFN TO MAKE REPAIRS FINISH STAGE IN AM.
10/13/2009	7:00 - 7:15	0.25	COMP	48		P		JSA FRAC & PERF SAFETY

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009	
Project: UTAH-UINTAH	Site: NBU 1022-02D		Rig Name No: LEED 698/698
Event: COMPLETION	Start Date: 10/9/2009		End Date: 10/14/2009
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 14:00	6.75	COMP	30		P		2ND 1/2 OF STAGE #3 WHP=1338#, BREAK DWN PERFS @ 2855#, INJ PSI=4700, INJ RATE=48, ISIP=2183#, FG=.70, PUMPED 2211.9 BBLS SLK WTR W/ 76832# 30/50 MESH, . ISIP=2618#, FG= .75, AR=48.1, AP=4466#,MR=50.2,MP=4286#, NPI=435#, W/42/42 CALC PERFS OPEN 100%. STAGE #4] PU RIH WHALLI 8K CBP & PERF GUN. SET CBP@7791' PERF MESA VERDE USING 3-3/8" EXPEND, 23 GRAM, 0.36" HOLE. 7758'-7761' 4 SPF, 90* PH 12 HOLES 7642'-7645' 3 SPF, 120* PH 9 HOLES 7582'-7584' 4 SPF, 90* PH 8 HOLES 7473'-7475', 2 SPF, 180* PH 4 HOLES 7444'-7446', 2 SPF, 180* PH 4 HOLES WHP=1395#, BREAK DWN PERFS @ 3420#, INJ PSI=6144, INJ RATE=37.5, ISIP=2318#, FG=.74, PUMPED 2662 BBLS SLK WTR W/ 112867# 30/50 MESH, W/5000# RESIN COAT IN TAIL. ISIP=2257#, FG= .73, AR=50.1, AP=4550#,MR=50.5,MP=6195#, NPI=-65#, W/37/37 CALC PERFS OPEN 100%. PU RIH W/ HALLI 8K CBP , SET FOR KILL PLUG @ 7394' RDMO SCHLUMBERGER WIRE LINE & SUPERIOR FRAC EQUIP ND FRAC VALVES NU BOPS RU TUBING EQUIP PU 3-7/8" BIT W/ POBS PKG RIH TAG KILL PLUG PU PWR SWIVEL, PREP TO DRILL IN AM SDFN.
10/14/2009	7:00 - 7:15	0.25		48				JSA DRILL PLUGS
	7:15 - 17:00	9.75	COMP	30		P		OPEN WELL 0 PSI EST CIRC PLUG #1] TAG SAND @ 7374' (20' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7394' IN 7 MIN W/ 200# INCREASE PLUG #2] CONTINUE TO RIH TAG SAND @ 7761' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @7791' IN 12 MIN W/ 100# INCREASE PLUG #3] CONTINUE TO RIH TAG SAND @ 8054'(30' FILL) C/O & DRILL THRU HALLI 8K CBP 8084' IN 7 MIN W/ 50# INCREASE PLUG #4] CONTINUE TO RIH TAG SAND @ 8335' (35" FILL) C/O & DRILL THRU HALLI 8K CBP 8370' IN 7 MIN W/ 0 INCREASE CONTINUE TO RIH TAG SAND @ 8665' C/O & DRILL TO PBTD @ 8700' CIRC CLEAN RD SWVL LD 18 JNTS LAND TUB ON HANGER W/ 258 JNTS OF 2-3/8" J-55 EOT @ 8150.49' DROP BALL RD FLOOR & TUB EQUIP ND BOPS NU WELL HEAD NU RIG PMP, PUMP OFF BIT SUB @ 2500# SHUT WELL IN 30 MIN TURN WELL OVER TO FBC RIG DWN MOVE TO NBU 1022-2F
10/15/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2700#, TP 2100#, 20/64" CK, 55 BWPH, MED SAND, LIGHT GAS TTL BBLS RECOVERED: 3010 BBLS LEFT TO RECOVER: 6916

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-02D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009	
Project: UTAH-UINTAH	Site: NBU 1022-02D		Rig Name No: LEED 698/698
Event: COMPLETION	Start Date: 10/9/2009		End Date: 10/14/2009
Active Datum: RKB @4,993.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/16/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3350#, TP 2350#, 20/64" CK, 35 BWPH, - SAND, HEAVY GAS TTL BBLS RECOVERED: 3930 BBLS LEFT TO RECOVER: 5996
	12:45 -		PROD	50				WELL TURNED TO SALE @ 1245 HR ON 10/16/09 - FTP 2400#, CP 3275#, 2.2 MCFD, 30 BWPD, 16/64 CK
10/17/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3250#, TP 2500#, 16/64" CK,25BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 4570 BBLS LEFT TO RECOVER: 5356
10/18/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3100#, TP 2450#, 16/64" CK, 15 BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 5055 BBLS LEFT TO RECOVER: 4871
10/19/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3000#, TP 2375#, 16/64" CK, 15 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 5415 BBLS LEFT TO RECOVER: 4511
	9:59 -		PROD	50				WELL IP'D ON 10/19/09 - 2436 MCFD, 40 BOPD, 320 BWPD, CP 2982#, FTP 683#, CK 14/64" LP 125#, 24 HRS

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-22651

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-02D

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047399550000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1090 FNL 0990 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 02 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 10/7/2011	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	✓ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Operator requests approval to recomplete the subject well. The Operator proposes to recomplete the Wasatch and Mesaverde formations and commingle the recompleted formations with the existing Mesaverde formation. Please see the attached procedure. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: 10/12/2011

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 10/6/2011

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Greater Natural Buttes Unit

NBU 1022-2D

RE-COMPLETIONS PROCEDURE

DATE:8/17/2011
AFE#:2063719
API#:4304739955
USER ID:rachappe (Frac Invoices Only)

COMPLETIONS ENGINEER: **Rachael Hill, Denver, CO**
(720)-929-6599 (Office)
(303)-907-9167 (Cell)

SIGNATURE:

ENGINEERING MANAGER: **JEFF DUFRESNE**

SIGNATURE:

R E M E M B E R S A F E T Y F I R S T !

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Name: **NBU 1022-2D**
Location: **NW NW SEC2 T10S R22E**
LAT: 39.982267 **LONG: -109.413150** **COORDINATE: NAD83 (surface location)**
Uintah County, UT
Date: **8/17/2011**

ELEVATIONS: 4975' GL 4993' KB *Frac Registry TVD: 8735*

TOTAL DEPTH: 8740' **PBTD:** 8689'
SURFACE CASING: 9 5/8", 36# J-55 LT&C @ 2250'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 LT&C @ 8734'
Marker Joint **4276-4297**'

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES (bbl/ft)	CAPACITIES (gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 ½" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 ½" Annulus				0.0101	0.4227

TOPS: **BOTTOMS:**

1145' Green River Top
1368' Bird's Nest Top
1874' Mahogany Top
4205' Wasatch Top — 6519' Wasatch Bottom
6519' Mesaverde Top — 8740' Mesaverde Bottom (TD)

T.O.C. @ 500'

GENERAL:

- A minimum of **21** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Halliburtons Induction-Density-Neutron log dated 3/2/2009
- **5** fracturing stages required for coverage.
- Procedure calls for **6** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Pump scale inhibitor at 3 gpt (in pad and until 1.25 ppg ramp up is reached) and 10 gpt in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac**.
- Maximum surface pressure **6200** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.

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- **Call flush at 0 PPG @ inline densiometers. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- Tubing Currently Landed @~8148
- Originally completed on 10/12/2009

Existing Perforations:

Name NBU 1022-2D
Perforation and CBP Summary

Stage	Zones	Perforations Top, ft	Perforations Bottom, ft	SPF	Holes		Fracture Coverage		
1	MESAVERDE	8666	8676	4	40		8643.5	to	8682
	MESAVERDE						8683	to	8689.5
	# of Perfs/stage				40		CBP DEPTH	8,370	
2	MESAVERDE	8190	8192	3	6		8173	to	8182.5
	MESAVERDE	8239	8241	3	6		8187	to	8197
	MESAVERDE	8286	8288	3	6		8235	to	8255.5
	MESAVERDE	8334	8340	4	24		8258.5	to	8263
	MESAVERDE						8276.5	to	8289.5
	MESAVERDE						8321	to	8345.5
	# of Perfs/stage				42		CBP DEPTH	8,084	
3	MESAVERDE	7868	7871	3	9		7832	to	7886.5
	MESAVERDE	7952	7955	4	12		7896	to	7917
	MESAVERDE	7994	7996	3	6		7945.5	to	7983.5
	MESAVERDE	8009	8011	4	8		7991.5	to	8000
	MESAVERDE	8052	8054	4	8		8002	to	8016
	MESAVERDE						8047.5	to	8051.5
	MESAVERDE						8053	to	8057.5
	# of Perfs/stage				43		CBP DEPTH	7,791	
4	MESAVERDE	7444	7446	2	4		7432	to	7450.5
	MESAVERDE	7473	7475	2	4		7466	to	7478
	MESAVERDE	7582	7584	4	8		7528.5	to	7587.5
	MESAVERDE	7642	7645	3	9		7590	to	7597.5
	MESAVERDE	7758	7761	4	12		7610	to	7657.5
	MESAVERDE						7659.5	to	7681
	MESAVERDE						7735.5	to	7743.5
	MESAVERDE						7745	to	7772
	# of Perfs/stage				37		CBP DEPTH	7,394	
	Totals				162				

Relevant History:

WINS No.: 00893	NBU 1022-2D	Start Date: 3/2/2011
AFE No.: 10089300	Operation Summary Report	End Date: 3/2/2011

Operator	FIELD NAME	SPUD CONDUCTOR	SPUD DATE	GL	KB	ROUTE
KERR-MCGEE OIL AND GAS ONSHORE LP	GNB_NATURAL BUTTES	1/17/2009	1/26/09	4,975	4993	V41

API	STATE	COUNTY	DIVISION
4304739955	UTAH	UINTAH	US ROCKIES REGION

Lat./Long.: Lat./Long.: 39.98230 / -109.41247 Q-Q/Sect/Town/Range: NWNW / / 2 / 10S / 22E Footages: 1,090.00' FNL 990.00' FWL

MTD	TVD	LOG MD	PBMD	PBTVD
8740	8735		8700	

EVENT INFORMATION: EVENT ACTIVITY: WELL WORK EXPENSE REASON: SLICKLINE WORK AFE NO.: 10089300
OBJECTIVE: DEVELOPMENT DATE WELL STARTED/RESUMED: 1/26/2009
OBJECTIVE2: SLICKLINE EVENT END STATUS: COMPLETE

RIG OPERATIONS: Begin Mobilization | Rig On Location | Rig Charges | Rig Operation Start | Finish Drilling | Rig Release | Rig Off Location

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
3/2/2011	SUPERVISOR: DALE JENKINS						DWC: $520.00 CWC: $520.00 MD:
	7:00 -		PROD	35	G	P	travel to location rig up wireline. Rih jar up @ 8135. pooh. Rih get td @ 8335. pooh. Scratch and broche tubbing to 8135. tite with scratcher from 7700-7960. drop and chase spring. Rig down.

FLUID LEVEL 7900 seat nipple 8135
SN TYPE X TD (Max Depth) 8335

JOB DETAILS
SPRING AND/OR PRODUTION TOOL DETAIL
Spring Out Used-Titanium Spring In Used-Titanium
Stuck Spring No, it came free Corrosion on Spring No

Bailed Acid Drop Down Menu
Broken Spring Drop Down Menu Scale on Spring No
Production Tools Drop Down Menu Depth of Tool
Other Hardware Drop Down Menu
PLUNGER DETAIL
Stuck Plunger No, it came free Corrosion on Plunger No

Broken Plunger Drop Down Menu Scale on Plunger No

SOLIDS DETAIL
Tight Spots Yes, down by SN Severity of Trash Light
Solid sample to turn in Drop Down Menu Solid Sample Source Drop Down Menu
Speculated Type of Solid Drop Down Menu Speculated Depth of Solid
LOST SLICKLINE TOOLS
Slickline Tools Lost Drop Down Menu Depth of Tool

H2S History:

The H2S for this well has historically been very low. The most recent reading shows a peak of 6ppm H2S.

PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.

2. TOOH with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~8148'). Visually inspect for scale and consider replacing if needed.

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3. If tbg looks ok consider running a gauge ring to 7477' (50’ below proposed CBP). Otherwise P/U a mill and C/O to 7477' (50’ below proposed CBP).

4. Set 8000 psi CBP at ~ 7427’. ND BOPs and NU frac valves. Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2” X 7-5/8” annulus with pressure relief valve in line. Pressure relief will be set to release at 500 psig. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.

5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
MESAVERDE	7192	7194	3	6
MESAVERDE	7216	7217	3	3
MESAVERDE	7287	7289	3	6
MESAVERDE	7342	7343	3	3
MESAVERDE	7383	7384	3	3
MESAVERDE	7396	7397	3	3

6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~7192’ and trickle 250gal 15%HCL w/ scale inhibitor in flush .

7. Set 8000 psi CBP at ~7084’. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
MESAVERDE	6902	6904	4	8
MESAVERDE	6931	6933	4	8
MESAVERDE	7052	7054	4	8

8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~6902’ and trickle 250gal 15%HCL w/ scale inhibitor in flush.

9. Set 8000 psi CBP at ~5844’. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5640	5641	4	4
WASATCH	5704	5707	4	12
WASATCH	5812	5814	4	8

10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~5640’ trickle 250gal 15%HCL w/ scale inhibitor in flush.

11. Set 8000 psi CBP at ~5418. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5268	5273	4	20
WASATCH	5387	5388	4	4

12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~5268’ and trickle 250gal 15%HCL w/ scale inhibitor in flush.

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13. Set 8000 psi CBP at ~5080'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5044	5050	4	24

14. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~5044' and flush only with recycled water.

15. Set 8000 psi CBP at~4994'.

16. ND Frac Valves, NU and Test BOPs.

17. TIH with 3 7/8" mill, pump open sub, XN nipple and tubing

18. Mill 5 plugs clean out to a depth of 7407'. THE WELL WILL BE COMMINGLED AT THIS TIME.

19. Land tubing at 5014', drop ball and pump open sub. Flow back completion load. RDMO

20. MIRU, POOH tbg and mill. TIH with POBS and mill

21. Mill last plug @ 7427' clean out to PBTD at 8689'. Land tubing at ±8148' pump off bit and bit sub . This well will be commingled at this time.

22. Clean out well with foam and/or swabbing unit until steady flow has been established from recompletion.

23. **Leave surface casing valve open**. Monitor and report any flow from surface casing. RDMO

For design questions, please call
Rachael Hill, Denver, CO
(720)-929-6599 (Office)
(303)-907-9167 (Cell)

For field implementation questions, please call
Jeff Samuels, Vernal, UT
435-781 7046 (Office)

NOTES:
If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work

Verify that the Braden head valve is locked OPEN.

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Service Company Supplied Chemicals - Job Totals

Friction Reducer	185	gals @	0.5	GPT
Surfactant	370	gals @	1.0	GPT
Clay Stabilizer	370	gals @	1.0	GPT
15% Hcl	0	gals @	250	gal/stg
Iron Control for acid	0	gals @	5.0	GPT of acid
Surfactant for acid	0	gals @	1.0	GPT of acid
Corrosion Inhibitor for acid	0	gals @	2.0	GPT of acid

Third Party Supplied Chemicals Job Totals - Include Pumping Charge if Applicable

Scale Inhibitor	824	gals pumped per schedule above		
Biocide	185	gals @	0.5	GPT

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Fracturing Schedules

Name NBU 1022-20
Slickwater Frac

Copy to new book

Recomplete?	Y
Pad?	Y
ACTS?	Y

Swabbing Days	0	Enter Number of swabbing days here for recompletes
Production Log	0	Enter 1 if running a Production Log
DFIT	0	Enter Number of DFITs

Stage	Zone	Perfs Top, ft.	Perfs Bot., ft	SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	MESAVERDE	7192	7194	3	6	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	7216	7217	3	3	0	ISIP and 5 min ISIP													46
	MESAVERDE	7287	7289	3	6	50	Slickwater Pad			Slickwater	6,213	6,213	148	148	15.0%	0.0%	0	0		19
	MESAVERDE	7342	7343	3	3	50	Slickwater Ramp	0.25	0.63	Slickwater	11,736	17,949	279	427	28.3%	21.9%	5,134	5,134		35
	MESAVERDE	7383	7384	3	3	50	SW Sweep	0	0	Slickwater	0	17,949	0	427		0.0%	0	5,134		0
	MESAVERDE	7396	7397	3	3	50	Slickwater Ramp	0.63	0.75	Slickwater	11,736	29,684	279	707	28.3%	34.4%	8,068	13,203		0
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	29,684	0	707		0.0%	0	13,203		0
	MESAVERDE					50	Slickwater Ramp	0.25	0.75	Slickwater	0	29,684	0	707		0.0%	0	13,203		0
	MESAVERDE					50	Slickwater Ramp	0.75	1	Slickwater	11,736	41,420	279	986	28.3%	43.8%	10,269	23,471		0
	MESAVERDE					50	Flush (4-1/2)				4,695	46,115	112	1,098				23,471		46
	MESAVERDE						ISDP and 5 min ISDP					46,115								146
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE									Sand laden Volume		41,420								
			# of Perfs/stage		24									Flush depth	7192	gal/md-ft	38,000	12,113	lbs sand/md-ft	
						22.0	<< Above pump time (min)									CBP depth	7,084		108	
2	MESAVERDE	6902	6904	4	8	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	6931	6933	4	8	0	ISIP and 5 min ISIP													
	MESAVERDE	7052	7054	4	8	50	Slickwater Pad			Slickwater	7,239	7,239	172	172	15.0%	0.0%	0	0		22
	MESAVERDE					50	Slickwater Ramp	0.25	0.63	Slickwater	13,674	20,913	326	498	28.3%	21.9%	5,982	5,982		41
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	20,913	0	498		0.0%	0	5,982		0
	MESAVERDE					50	Slickwater Ramp	0.63	0.75	Slickwater	13,674	34,586	326	823	28.3%	34.4%	9,401	15,383		0
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	34,586	0	823		0.0%	0	15,383		0
	MESAVERDE					50	Slickwater Ramp	0.25	0.75	Slickwater	0	34,586	0	823		0.0%	0	15,383		0
	MESAVERDE					50	Slickwater Ramp	0.75	1	Slickwater	13,674	48,260	326	1,149	28.3%	43.8%	11,964	27,347		0
	MESAVERDE					50	Flush (4-1/2)				4,506	52,766	107	1,256				27,347		38
	MESAVERDE						ISDP and 5 min ISDP					52,766								101
	MESAVERDE																			
	MESAVERDE																			
	MESAVERDE									Sand laden Volume		48,260								
			# of Perfs/stage		24									Flush depth	6902	gal/md-ft	38,000	21,533	lbs sand/md-ft	
						25.1	<< Above pump time (min)									CBP depth	5,844		1,058	
3	WASATCH	5640	5641	4	4	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	5704	5707	4	12	0	ISIP and 5 min ISIP													
	WASATCH	5812	5814	4	8	50	Slickwater Pad			Slickwater	7,695	7,695	183	183	15.0%	0.0%	0	0		23
	WASATCH					50	Slickwater Ramp	0.25	1	Slickwater	25,650	33,345	611	794	60.0%	37.3%	16,031	16,031		77
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	17,955	51,300	428	1,221	35.0%	62.7%	26,933	42,964		0
	WASATCH					50	Flush (4-1/2)			Slickwater	3,682	54,982	88	1,309				42,964		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	42,964		0
	WASATCH											54,982	88	1,309						35
	WASATCH																			135
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		51,300								
			# of Perfs/stage		24									Flush depth	5640	gal/md-ft	19,000	15,913	lbs sand/md-ft	
						26.2	<< Above pump time (min)									CBP depth	5,418		222	
4	WASATCH	5268	5273	4	20	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	5387	5388	4	4	0	ISIP and 5 min ISIP													
	WASATCH					50	Slickwater Pad			Slickwater	9,035	9,035	215	215	15.0%	0.0%	0	0		27
	WASATCH					50	Slickwater Ramp	0.25	1	Slickwater	30,115	39,150	717	932	60.0%	37.3%	18,822	18,822		90
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	21,081	60,230	502	1,434	35.0%	62.7%	31,621	50,443		0
	WASATCH					50	Flush (4-1/2)			Slickwater	3,439	63,669	82	1,516				50,443		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	50,443		0
	WASATCH											63,669	82	1,516						33
	WASATCH																			150
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		60,230								
			# of Perfs/stage		24									Flush depth	5268	gal/md-ft	19,000	15,913	lbs sand/md-ft	
						30.3	<< Above pump time (min)									CBP depth	5,080		188	
5	WASATCH	5044	5050	4	24	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH					0	ISIP and 5 min ISIP													
	WASATCH					50	Slickwater Pad			Slickwater	22,430	22,430	534	534	15.0%	0.0%	0	0		67
	WASATCH					50	Slickwater Ramp	0.25	1	Slickwater	74,765	97,195	1,780	2,314	60.0%	37.3%	46,728	46,728		224
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	52,336	149,530	1,246	3,560	35.0%	62.7%	78,503	125,231		0
	WASATCH					50	Flush (4-1/2)			Slickwater	3,293	152,823	78	3,639				125,231		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	125,231		0
	WASATCH											152,823	78	3,639						0
	WASATCH																			292
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		149,530								
			# of Perfs/stage		24									Flush depth	5044	gal/md-ft	19,000	15,913	lbs sand/md-ft	
						72.8	<< Above pump time (min)									CBP depth	4,994		50	
	Totals				120						Total Fluid	370,354	gals	8,818	bbls		Total Sand	269,456		
												8,818	bbls							
					2.9									19.6	tanks				Total Scale Inhib. =	824

Name NBU 1022-2D
Perforation and CBP Summary

Stage	Zones	Perforations Top, ft	Perforations Bottom, ft	SPF	Holes		Fracture Coverage		
1	MESAVERDE	7192	7194	3	6		7172.5	to	7196
	MESAVERDE	7216	7217	3	3		7205.5	to	7223
	MESAVERDE	7287	7289	3	6		7272.5	to	7293
	MESAVERDE	7342	7343	3	3		7334.5	to	7344.5
	MESAVERDE	7383	7384	3	3		7375	to	7387.5
	MESAVERDE	7396	7397	3	3		7388.5	to	7399
	MESAVERDE								
	# of Perfs/stage				24		CBP DEPTH	7,084	
2	MESAVERDE	6902	6904	4	8		6887	to	6907.5
	MESAVERDE	6931	6933	4	8		6922.5	to	6937
	MESAVERDE	7052	7054	4	8		7042	to	7057
	MESAVERDE								
	MESAVERDE								
	MESAVERDE								
	MESAVERDE								
	MESAVERDE								
	# of Perfs/stage				24		CBP DEPTH	5,844	
3	WASATCH	5640	5641	4	4		5638	to	5643.5
	WASATCH	5704	5707	4	12		5692	to	5711.5
	WASATCH	5812	5814	4	8		5788.5	to	5818
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				24		CBP DEPTH	5,418	
4	WASATCH	5268	5273	4	20		5235.5	to	5281
	WASATCH	5387	5388	4	4		5378	to	5391
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				24		CBP DEPTH	5,080	
5	WASATCH	5044	5050	4	24		5004	to	5057
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				24		CBP DEPTH	4,994	
	Totals				120				

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WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to offset from Wellhead: EW =.00 Ft , NS=.00 Ft
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TRUE Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
0	0	0	0	0	0	0	0	0	0
100	0.31	24.1	100	0.25	0.11	0.25	0.27	24.1	0.31
200	0.24	293.73	200	0.58	0.03	0.58	0.58	2.89	0.39
300	0.2	79.99	300	0.69	0.01	0.69	0.69	0.77	0.42
400	0.36	12.27	400	1.03	0.25	1.03	1.06	13.54	0.34
500	0.23	296.4	500	1.43	0.13	1.43	1.43	5.41	0.38
600	0.24	68.79	600	1.59	0.15	1.59	1.6	5.4	0.43
700	0.12	272.42	700	1.67	0.24	1.67	1.69	8.21	0.35
800	0.17	104.48	800	1.64	0.28	1.64	1.66	9.7	0.29
900	0.16	334.23	900	1.73	0.36	1.73	1.77	11.87	0.3
1000	0.2	214.86	1000	1.71	0.2	1.71	1.72	6.76	0.31
1100	0.06	40.23	1100	1.61	0.14	1.61	1.61	4.86	0.26
1200	0.3	281.46	1199.99	1.7	-0.09	1.7	1.7	357.1	0.33
1300	0.48	228.23	1299.99	1.47	-0.66	1.47	1.61	336.01	0.38
1400	0.29	294.93	1399.99	1.3	-1.2	1.3	1.77	317.35	0.45
1500	0.68	228.5	1499.99	1.01	-1.87	1.01	2.13	298.43	0.62
1600	1.48	189.96	1599.97	-0.65	-2.54	-0.65	2.62	255.59	1.04
1700	1.36	184.28	1699.94	-3.11	-2.85	-3.11	4.22	222.53	0.18
1800	1.24	196.7	1799.91	-5.33	-3.25	-5.33	6.24	211.39	0.31
1900	1.51	177.96	1899.89	-7.68	-3.51	-7.68	8.45	204.59	0.52
2000	1.33	176.84	1999.85	-10.16	-3.4	-10.16	10.71	198.53	0.18
2100	1.49	183.39	2099.82	-12.61	-3.42	-12.61	13.07	195.16	0.23
2200	1.49	173.04	2199.79	-15.2	-3.34	-15.2	15.56	192.38	0.27
2300	1.49	188.77	2299.76	-17.78	-3.38	-17.78	18.09	190.75	0.41
2400	1.64	176.79	2399.72	-20.49	-3.49	-20.49	20.79	189.68	0.36
2500	1.45	197.5	2499.68	-23.13	-3.79	-23.13	23.43	189.32	0.59
2600	1.75	184.76	2599.65	-25.85	-4.3	-25.85	26.21	189.45	0.46
2700	1.58	203.8	2699.6	-28.64	-4.98	-28.64	29.07	189.87	0.58
2800	1.9	195.6	2799.56	-31.5	-5.99	-31.5	32.06	190.76	0.4
2900	1.75	205.22	2899.51	-34.47	-7.08	-34.47	35.19	191.61	0.34
3000	1.87	213.79	2999.46	-37.21	-8.64	-37.21	38.2	193.07	0.3
3200	1.84	214.32	3199.35	-42.57	-12.27	-42.57	44.31	196.07	0.02
3400	2.17	198.57	3399.23	-48.82	-15.28	-48.82	51.15	197.38	0.32
3600	2.52	189.37	3599.07	-56.74	-17.2	-56.74	59.29	196.87	0.26
3800	2.21	199.25	3798.9	-64.72	-19.19	-64.72	67.51	196.52	0.26
4000	2.31	213.21	3998.74	-71.73	-22.67	-71.73	75.23	197.54	0.28
4200	2.12	217.93	4198.59	-78.03	-27.15	-78.03	82.61	199.19	0.13
4400	1.79	213.14	4398.48	-83.56	-31.13	-83.56	89.17	200.44	0.18
4600	2.11	200.5	4598.36	-89.62	-34.13	-89.62	95.9	200.85	0.27
4800	1.86	212.62	4798.24	-95.81	-37.17	-95.81	102.76	201.21	0.24
5000	1.68	202.16	4998.15	-101.25	-40.03	-101.25	108.88	201.57	0.18
5200	1.86	213.82	5198.05	-106.67	-42.94	-106.67	114.98	201.93	0.2
5400	1.85	234.85	5397.95	-111.22	-47.38	-111.22	120.89	203.08	0.34
5600	2.07	268.99	5597.84	-113.14	-53.64	-113.14	125.21	205.36	0.58
5800	2.39	320.31	5797.71	-110	-59.91	-110	125.25	208.58	0.98

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Acid Pickling and H2S Procedures (If Required)

**PROCEDURE FOR PUMPING ACID DOWN TBG

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBLS 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBLS 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBLS MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

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Key Contact information

Completion Engineer

Rachael Hill: 303-907-9167, 720-929-6599

Production Engineer

Travis Hansell: 435-790-6903, 435-781-7052

Completion Supervisor Foreman

Jeff Samuels: 435-828-6515, 435-781-7046

Completion Manager

Jeff Dufresne: 720-929-6281, 303-241-8428

Vernal Main Office

435-789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22651
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: UTU63047A
8. WELL NAME and NUMBER: NBU 1022-02D
9. API NUMBER: 4304739955
10 FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER

b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☑ OTHER RECOMPLETION

2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR: P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217
PHONE NUMBER: (720) 929-6304

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: NWNW 1090 FNL; 990 FWL S2,T10S,R22E
AT TOP PRODUCING INTERVAL REPORTED BELOW:
AT TOTAL DEPTH:

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 2 10S 22E S
12. COUNTY: UINTAH
13. STATE: UTAH

14. DATE SPUDDED: 1/17/2009
15. DATE T.D. REACHED: 3/2/2009
16. DATE COMPLETED: 11/12/2011 ABANDONED ☐ READY TO PRODUCE ☑
17. ELEVATIONS (DF, RKB, RT, GL): 4975 GL

18. TOTAL DEPTH: MD 8,740 TVD 8,735
19. PLUG BACK T.D.: MD 8,690 TVD 8,685
20. IF MULTIPLE COMPLETIONS, HOW MANY? *
21. DEPTH BRIDGE PLUG SET: MD 7,427 TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
BHV-DSN/SD/ACRT/CBL

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☑ YES ☐ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
12 1/4"	9 5/8" J-55	36#	0	2,249		675		0	
7 7/8"	4 1/2" I-80	11.6#	0	8,733		1,585		500	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	5,027							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) WASATCH	5,044	5,814		
(B) MESAVERDE	6,902	7,397		
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)		SIZE	NO. HOLES	PERFORATION STATUS
5,044	5,814	0.36	72	Open ☑ Squeezed ☐
6,902	7,397	0.36	48	Open ☑ Squeezed ☐
				Open ☐ Squeezed ☐
				Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5044 - 7397	PUMP 9,462 BBLS SLICK H2O & 259,906 LBS 30/50 OTTAWA SAND
	5 STAGES

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: PROD

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(5/2000) **(CONTINUED ON BACK)**

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
11/12/2011	11/13/2011	24		0	1,749	7,332	FLOWING

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
20/64	900	1,100					0	1,749	7,332	PROD

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,145
				BIRD'S NEST	1,368
				MAHOGANY	1,874
				WASATCH	4,205
				MESAVERDE	6,519

35. ADDITIONAL REMARKS (Include plugging procedure)

Find attached the recompletion history and perforation report. New recompletion perforations are: Wasatch: 5044-5814 and Mesaverde: 6902-7397'; existing perforations: Mesaverde: 7444-8676'. An isolation plug separating the new perforations from the old perforations is set at 7427'. The sundry for first sales submitted 11/15/11 stating that new and old perforations were commingled was in error. The new and old zones have never been commingled. A sundry will be submitted before the iso plug is drilled out. Production is from new perforations

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) CARA MAHLER TITLE REGULATORY ANALYST

SIGNATURE DATE 8/27/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-2D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009
Project: UTAH-UINTAH	Site: NBU 1022-2D	Rig Name No: MILES 3/3
Event: RECOMPL/RESEREVEADD	Start Date: 11/7/2011	End Date: 11/11/2011
Active Datum: RKB @4,993.00usft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/7/2011	13:00 - 17:00	4.00	COMP	30	A	P		ROAD RIG AND EQUIP FROM BONANZA 1023-8K TO LOC. SPOT AND RUSU. SPOT EQUIP. LAY PMP LINES. LEFT WELL OPEN TO SALES. SDFN
11/8/2011	7:00 - 7:15	0.25	COMP	48		P		JSA- ND/NU. UNLAND TBG. POOH.
	7:15 - 9:00	1.75	COMP	30	F	P		FTP 175, FCP 175, SURFACE CSG OPEN. PMP 10 BBLS DOWN TBG. PMP 30 BBLS DOWN CSG. ND WH. CLEAN UP THREADS IN HANGER (SCALE). PU ON TBG, FREE. RELAND HANGER. NU BOP. RU FLOOR.
	9:00 - 11:00	2.00	COMP	31	I	P		UNLAND TBG FROM 8150'. LD 4" 10K HANGER. POOH AS SB 196-JTS AND LD 62-JTS. BTM 1-1/2 JTS HAD SCALE IN ID (3/4" HOLE THRU TBG). LD XN.
	11:00 - 13:00	2.00	COMP	30	F	P		RD FLOOR. ND BOP. NU FRAC VALVE. RU FLOOR. WAIT ON JW EWL.
	13:00 - 15:30	2.50	COMP	34	I	P		JW EWL AOL. DID NOT HAVE FLANGE FOR FRAC VALVE. PMP 40 BBLS DOWN CSG. RD FLOOR. ND FRAC VALVES. NU BOP. RU FLOOR. RIH W/ 3.75" GR/JB. GOOD. RIH W/ HALCO 8K CBP AND SET AT 7427'. RD EWL.
	15:30 - 16:30	1.00	COMP	30	F	P		RD FLOOR. ND BOP. NU FRAC VALVES. RU FLOOR. FILL CSG W/ 60 BBLS. PRES TEST TO 2500#. GOOD. BLEED OFF. DRAIN EQUIP. SDFN
11/9/2011	7:00 - 7:15	0.25	COMP	48		P		JSA- PRES TESTING
	7:15 - 12:00	4.75	COMP	33	C	P		BLEED OFF CSG. FILL CSG W/ 5 BBLS TMAC. ENCLOSE FRAC VALVES AND HOOK UP HEATER.. RU B&C. PRES TEST. TEST 1140# FOR 15 MIN. LOST 11 PSI. TEST 3650# FOR 15 MIN. LOST 15 PSI. TEST 6270#. FOR 30 MIN. LOST 40 PSI. NO COMMUNICATION TO SURFACE. BLEED OFF. RD B & C. DRAIN EQUIP. SWI AND SDFN.
11/10/2011	7:00 - 7:15	0.25	COMP	48		P		JSA- PERF AND FRAC
	7:15 - 9:00	1.75	COMP	37	B	P		MIRU SUPERIOR AND JW WIRELINE. RIH W/ 3-1/8" GUN (23 GRAM, 40" PENT, 3 SPF ON 120*, .36 EOD) AND PERF 7397' - 7192' AS PER PROCEEDURE.
	9:00 - 10:50	1.83	COMP	36	B	P		PRES TEST SURFACE LINES TO 7200PSI. GOOD. STAGE #1- OPEN WELL- SICP 175 PSI. BRK 3291 PSI AT 3.9 BPM, ISIP 2614, FG .80. PMP 100 BBLS SLK WTR, 48.3 BPM @ 5495 PSI = 84% 20/24 PERFS OPEN. MP 5116, MR 50.7, AP 4783, AR 40.6, FG .77, ISIP 2440, NPI -174. BBLS PMP 1390 SLK WTR, 23,176# 30/50 PROP.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-2D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009
Project: UTAH-UINTAH	Site: NBU 1022-2D	Rig Name No: MILES 3/3
Event: RECOMPL/RESEREVEADD	Start Date: 11/7/2011	End Date: 11/11/2011
Active Datum: RKB @4,993.00usft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	10:50 - 11:50	1.00	COMP	37	B	P		STAGE #2-- RIH HALCO 8K CBP AND W/ 3-1/8" GUN (23 GRAM, 40" PENT, 4 SPF ON 90*, .36 EOD). SET CBP AT 7089' AND PERF 6902'-7054' AS PER PROCEEDURE.
	11:50 - 13:00	1.17	COMP	36	B	P		STAGE #2- OPEN WELL- SICP 914 PSI. BRK 3207 PSI AT 3.2 BPM, ISIP 1848, FG .70. PMP 100 BBLS SLK WTR, 33.3 BPM @ 5460 PSI = 60% 14/24 PERFS OPEN. MP 6086, MR 40.7, AP 5219, AR 29.4, FG .77, ISIP 2304, NPI 456. BBLS PMP 1400 SLK WTR, 27,141# 30/50.
	13:00 - 13:55	0.92	COMP	37	B	P		STAGE #3-- RIH HALCO 8K CBP AND W/ 3-1/8" GUN (23 GRAM, 40" PENT, 4 SPF ON 90*, .36 EOD). SET CBP AT 5844' AND PERF 5814'-5640' AS PER PROCEEDURE
	13:55 - 14:45	0.83	COMP	36	B	P		STAGE #3- OPEN WELL- SICP 650 PSI. BRK 3647 PSI AT 3.6 BPM, ISIP 1145, FG .64. PMP 100 BBLS SLK WTR, 46.6 BPM @ 5072 PSI = 61% 15/24 PERFS OPEN. MP 5530, MR 51.2, AP 4329, AR 50.5, FG .70, ISIP 1460, NPI 315. BBLS PMP 1428 SLK WTR, 43,053# 30/50.
	14:45 - 15:30	0.75	COMP	37	B	P		STAGE #4-- RIH HALCO 8K CBP AND W/ 3-1/8" GUN (23 GRAM, 40" PENT, 4 SPF ON 90*, .36 EOD). SET CBP AT 5418' AND PERF 5388'-5268' AS PER PROCEEDURE.
	15:30 - 16:30	1.00	COMP	36	B	P		STAGE #4- OPEN WELL- SICP 579 PSI. BRK 3289 PSI AT 3.8 BPM, ISIP 1039, FG .63. PMP 100 BBLS SLK WTR, 50.3 BPM @ 4609 PSI = 70% 17/24 PERFS OPEN. MP 5090, MR 51.6, AP 3423, AR 50.9, FG .70, ISIP 1367, NPI 337. BBLS PMP 1694 SLK WTR, 50,447# 30/50.
	16:30 - 17:00	0.50	COMP	37	B	P		STAGE #5-- RIH HALCO 8K CBP AND W/ 3-1/8" GUN (23 GRAM, 40" PENT, 4 SPF ON 90*, .36 EOD). SET CBP AT 5080' AND PERF 5044'-5060' AS PER PROCEEDURE.
	17:00 - 20:00	3.00	COMP	36	B	P		STAGE #5- OPEN WELL- SICP 250 PSI. BRK 1605 PSI AT 3.7 BPM, ISIP 169, FG .47. CONFER WITH RACHAEL HILL. SAID TO GO AHEAD AND FRAC. PMP 100 BBLS SLK WTR, 52.1 BPM @ 2509 PSI = 100% 24/24 PERFS OPEN. MP 2779, MR 53, AP 2540, AR 52.4, FG .51, ISIP 352, NPI 315. BBLS PMP 3550 SLK WTR, 116,089# 30/50. RAN OUT OF WTR. ABLE TO GET FLUSHED BUT SHORT 9142# SAND. WELL WENT ON VACUUM. DID NOT RUN KILL PLUG. RIG DOWN SUPERIOR AND JW EWL.
11/11/2011	7:00 - 7:15	0.25	COMP	48		P		JSA- RIH. D/O PLUGS. LD TBG. LAND TBG.
	7:15 - 8:30	1.25	COMP	30	F	P		SICP-- WELL STILL ON VACUUM. RD FLOOR. ND FRAC VALVES. NU BOP. RU FLOOR.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-2D	Spud Conductor: 1/17/2009	Spud Date: 1/26/2009	
Project: UTAH-UINTAH	Site: NBU 1022-2D		Rig Name No: MILES 3/3
Event: RECOMPL/RESEREVEADD	Start Date: 11/7/2011		End Date: 11/11/2011
Active Datum: RKB @4,993.00usft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:30 - 11:00	2.50	COMP	31	I	P		MU 3-7/8" MILL, PUMP OPEN BIT SUB, 1.87" XN. RIH AS TALLY W/ 160-JTS 2-3/8" J-55 TBG. TAG SAND AT 5041'. RU DRLG EQUIP.
	11:00 - 19:00	8.00	COMP	44	C	P		START N2/FOAM DOWN TBG TO GET CIRC. D/O PLUGS. #1- C/O 45' SAND TO CBP AT 5080'. D/O IN 18 MIN W/ FOAM. 300# INC. RIH. #2- C/O 33' SAND TO CBP AT 5418'. D/O IN 26 MIN W/ FOAM AND RIG PMP AT 1 BPM. 600# INC. RIH. #3- C/O 30' SAND TO CBP AT 5844'. D/O IN 11 MIN W/ WTR. 400# INC. RIH. #4- C/O 35' SAND TO CBP AT 7084'. D/O IN 8 MIN W/ WTR. 100# INC. RIH. ISOLATION PLUG AT 7427'. C/O 20' SAND TO 7411' W/ 235-JTS IN. CIRC CLEAN. RD PWR SWIVEL. POOH AS LD 76-JTS. PU 4" 10K HANGER. LUB IN AND LAND 159-JTS 2-3/8" J-55 TBG W/ EOT AT 5026.77'. RD FLOOR. ND BOP. NU WH. PMP OPEN BIT SUB AT 2000#. HOOK UP TO HAL 9000#. TURN OVER TO FBC AND SALES. SICP 1000. TBG 0. SURFACE OPEN. RDSU AND MOVE OFF. TBG DETAIL KB 18.00 4" 10K HANGER .83 159-JTS 2-3/8" J-55 5004.89 1.87" XN NIPPLE WITH PMP OPEN SUB AND MILL ON BTM. 3.05 EOT 5026.77 99-JTS ON TRAILER TWTR 9464, TWR 780, LTR 8684.

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 1022-2D	**Wellbore No.**	OH
Well Name	NBU 1022-2D	**Wellbore Name**	NBU 1022-2D
Report No.	1	**Report Date**	11/10/2011
Project	UTAH-UINTAH	**Site**	NBU 1022-2D
Rig Name/No.	MILES 3/3	**Event**	RECOMPL/RESEREVEADD
Start Date	11/7/2011	**End Date**	11/11/2011
Spud Date	1/26/2009	**Active Datum**	RKB @4,993.00usft (above Mean Sea Level)
UWI	0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0		

1.3 General

Contractor		**Job Method**	PERFORATE	**Supervisor**	
Perforated Assembly	PRODUCTION CASING	**Conveyed Method**	WIRELINE		

1.4 Initial Conditions

Fluid Type	KCL WATER	**Fluid Density**	8.40 (ppg)
Surface Press	0.00 (psi)	**Estimate Res Press**	
TVD Fluid Top	0.0 (usft)	**Fluid Head**	7,397.0 (usft)
Hydrostatic Press	3,227.79 (psi)	**Press Difference**	3,227.79 (psi)
Balance Cond	OVER BALANCED		

1.5 Summary

Gross Interval	5,044.0 (usft)-7,397.0 (usft	**Start Date/Time**	11/10/2011 11:36AM
No. of Intervals	15	**End Date/Time**	11/10/2012 11:37AM
Total Shots	120	**Net Perforation Interval**	32.00 (usft)
Avg Shot Density	3.75 (shot/ft)	**Final Surface Pressure**	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/10/2011 4:56PM	WASATCH/			5,044.0	5,050.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/10/2011 3:29PM	WASATCH/			5,268.0	5,273.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/10/2011 3:29PM	WASATCH/			5,387.0	5,388.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/10/2011 1:58PM	WASATCH/			5,640.0	5,641.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/10/2011 1:57PM	WASATCH/			5,704.0	5,707.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/10/2011 1:57PM	WASATCH/			5,812.0	5,814.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/10/2011 11:37AM	MESAVERDE/			6,902.0	6,904.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/10/2011 11:37AM	MESAVERDE/			6,931.0	6,933.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/10/2011 11:37AM	MESAVERDE/			7,052.0	7,054.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/10/2011 11:37AM	MESAVERDE/			7,192.0	7,194.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
11/10/2012 11:37AM	MESAVERDE/			7,216.0	7,217.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
11/10/2011 11:36AM	MESAVERDE/			7,287.0	7,289.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
11/10/2011 11:36AM	MESAVERDE/			7,342.0	7,343.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
11/10/2011 11:36AM	MESAVERDE/			7,383.0	7,384.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
11/10/2011 11:36AM	MESAVERDE/			7,396.0	7,397.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22651

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME: UTU63047A

b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☑ OTHER RECOMPLETION

8. WELL NAME and NUMBER: NBU 1022-02D

2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 4304739955

3. ADDRESS OF OPERATOR: P.O.BOX 173779 DENVER CO 80217

PHONE NUMBER: (720) 929-6304

10 FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: NWNW 1090 FNL; 990 FWL S2,T10S,R22E
AT TOP PRODUCING INTERVAL REPORTED BELOW:
AT TOTAL DEPTH:

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 2 10S 22E S

12. COUNTY: UINTAH

13. STATE: UTAH

14. DATE SPUDDED: 1/17/2009

15. DATE T.D. REACHED: 3/2/2009

16. DATE COMPLETED: 11/12/2011 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 4975 GL

18. TOTAL DEPTH: MD 8,740 TVD 8,735

19. PLUG BACK T.D.: MD 8,690 TVD 8,685

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD 7,427 TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
BHV-DSN/SD/ACRT/CBL

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☑ YES ☐ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
12 1/4"	9 5/8" J-55	36#	0	2,249		675		0	
7 7/8"	4 1/2" I-80	11.6#	0	8,733		1,585		500	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	5,027							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) WASATCH	5,044	5,814		
(B) MESAVERDE	6,902	7,397		
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)		SIZE	NO. HOLES	PERFORATION STATUS
5,044	5,814	0.36	72	Open ☑ Squeezed ☐
6,902	7,397	0.36	48	Open ☑ Squeezed ☐
				Open ☐ Squeezed ☐
				Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5044 - 7397	PUMP 9,462 BBLS SLICK H2O & 259,906 LBS 30/50 OTTAWA SAND
	5 STAGES

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: PROD

(5/2000)

(CONTINUED ON BACK)

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
11/12/2011	11/13/2011	24		0	1,749	7,332	FLOWING

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
20/64	900	1,100					0	1,749	7,332	PROD

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.

34. FORMATION (Log) MARKERS:

Name	Top (Measured Depth)
GREEN RIVER	1,145
BIRD'S NEST	1,368
MAHOGANY	1,874
WASATCH	4,205
MESAVERDE	6,519

35. ADDITIONAL REMARKS (Include plugging procedure)

Find attached the recompletion history and perforation report. New recompletion perforations are: Wasatch: 5044-5814 and Mesaverde: 6902-7397'; existing perforations: Mesaverde: 7444-8676'. An isolation plug separating the new perforations from the old perforations is set at 7427'. The sundry for first sales submitted 11/15/11 stating that new and old perforations were commingled was in error. The new and old zones have never been commingled. A sundry will be submitted before the iso plug is drilled out. Production is from new perforations

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) CARA MAHLER TITLE REGULATORY ANALYST

SIGNATURE _____ DATE 2/27/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-22651

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-02D

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047399550000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1090 FNL 0990 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 02 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 9/6/2012	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	✓ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator has performed the recompletion and submitted a completion report on the subject well. When the completion report was submitted the existing perforations and the new perforations were not commingled. At this time we would like to drill out the isolation plug to commingle the perforations. Please see attached procedure. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: October 03, 2012

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Cara Mahler	720 929-6029	Regulatory Analyst I
SIGNATURE N/A		**DATE** 9/6/2012

RECEIVED: Sep. 06, 2012

NBU 1022-2D

ISOLATION PLUG DRILL-OUT

GREATER NATURAL BUTTES
SECTION 2, T10S R22E
43-047-35143
UINTAH, UT

PREPARED BY: HEATH POTTMEYER

RECEIVED: Sep. 06, 2012

Anadarko Petroleum Corporation

CONTACT INFORMATION

FOREMAN	**Trevor Hoopes**	**435-828-8916**
LEAD OPERATOR	**Kyler Lance**	**435-828-8938**
OPERATOR	**Leon Hemphill**	**435-828-8698**
OPERATOR	**Josh Johnson**	**435-823-4152**
ENGINEER	**Heath Pottmeyer**	**740-525-3445**

DEPTHS & TUBULARS

KBE: 4993’
GLE: 4975’
TD: 8740’
PBTD: 8700’

Tubular	**Drift inches**	**Collapse Psi**	**Burst Psi**	**Capacities**		
				Gal./ft.	**Cuft/ft.**	**Bbl./ft.**
2.375” 4.7# L-80 tbg.	1.901	11780	11200	0.1626	0.02173	0.00387
4.5” 11.6# I-80 csg	3.875	6350	7780	0.6528	0.0872	0.01554
Annular Capacities						
2.375” tbg. X 4.5” 11.6# csg.				0.4226	0.0565	0.01006

RECEIVED: Sep. 06, 2012

Anadarko Petroleum Corporation

PERFORATIONS

Legal Well Name	Date	MD Top (ft)	MD Base (ft)	SPF	Stage
Current EOT @ ~ 5009'					
NBU 1022-2D	11/10/2011	5,044.00	5,050.00	4	R5
NBU 1022-2D	11/10/2011	5,268.00	5,273.00	4	R4
NBU 1022-2D	11/10/2011	5,387.00	5,388.00	4	R4
NBU 1022-2D	11/10/2011	5,640.00	5,641.00	4	R3
NBU 1022-2D	11/10/2011	5,704.00	5,707.00	4	R3
NBU 1022-2D	11/10/2011	5,812.00	5,814.00	4	R3
NBU 1022-2D	11/10/2011	6,902.00	6,904.00	4	R2
NBU 1022-2D	11/10/2011	6,931.00	6,933.00	4	R2
NBU 1022-2D	11/10/2011	7,052.00	7,054.00	4	R2
NBU 1022-2D	11/10/2011	7,192.00	7,194.00	3	R1
NBU 1022-2D	11/10/2012	7,216.00	7,217.00	3	R1
NBU 1022-2D	11/10/2011	7,287.00	7,289.00	3	R1
NBU 1022-2D	11/10/2011	7,342.00	7,343.00	3	R1
NBU 1022-2D	11/10/2011	7,383.00	7,384.00	3	R1
NBU 1022-2D	11/10/2011	7,396.00	7,397.00	3	R1
Isolation Plug @ ~ 7427'					
NBU 1022-2D	10/12/2009	7,444.00	7,446.00	2	4
NBU 1022-2D	10/12/2009	7,473.00	7,475.00	2	4
NBU 1022-2D	10/12/2009	7,582.00	7,584.00	4	4
NBU 1022-2D	10/12/2009	7,642.00	7,645.00	3	4
NBU 1022-2D	10/12/2009	7,758.00	7,761.00	4	4
NBU 1022-2D	10/12/2009	7,868.00	7,871.00	3	3
NBU 1022-2D	10/12/2009	7,952.00	7,955.00	4	3
NBU 1022-2D	10/12/2009	7,994.00	7,996.00	3	3
NBU 1022-2D	10/12/2009	8,009.00	8,011.00	4	3
NBU 1022-2D	10/12/2009	8,052.00	8,054.00	4	3
New EOT @ ~ 8148'					
NBU 1022-2D	10/12/2009	8,190.00	8,192.00	3	2
NBU 1022-2D	10/12/2009	8,239.00	8,241.00	3	2
NBU 1022-2D	10/12/2009	8,286.00	8,288.00	3	2
NBU 1022-2D	10/12/2009	8,334.00	8,340.00	4	2
NBU 1022-2D	10/12/2009	8,666.00	8,676.00	4	1
PBTD @ ~ 8700'					

RECEIVED: Sep. 06, 2012

Anadarko Petroleum Corporation

PROCEDURE

- MIRU, NDWH, & NUBOP.
- Un-land tubing. Current EOT +/- **5009'**.
- POOH and **inspect** the tubing. If scaled or damaged joints are found, scan and break each connection to visually inspect each pin and upset. Once good pipe integrity is reestablished, the visual inspection of each connection may be discontinued based on personal judgment. LD all scaled or damaged joints.
- Take solid samples (inside & outside of tubing), if available, and submit to engineer.
- RIH with **POBS & 3.875" mill**, mill isolation plug @ +/- 7427', & clean out to PBTD +/- **8700'**.
- Land tubing with seat nipple at +/- **8148'**. Pump off bit and bit sub. Broach full ID to EOT. Ensure that broach is 1.90" OD.
- Drop a standing valve and pressure test tubing to 500 psi. If pressure holds, retrieve the standing valve. **If test fails, call engineer to discuss**.
- NDBOP, NUWH, & notify CDC, Foreman, & Operators of RDMO.

RECEIVED: Sep. 06, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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9. API NUMBER: 43047399550000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6100

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1090 FNL 0990 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 02 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 5/7/2015	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☑ OTHER	OTHER: TUBING FAILURE

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A WORKOVER FOR TUBING FAILURE HAS BEEN COMPLETED ON THE NBU 1022-02D, SEE THE ATTACHED OPERATIONS SUMMARY REPORT

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
May 21, 2015

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Doreen Green	435 781-9758	Regulatory Analyst II
SIGNATURE N/A		**DATE** 5/19/2015

RECEIVED: May. 19, 2015

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-2D	Spud Conductor: 1/17/2009	Spud date: 1/26/2009	
Project: UTAH-UINTAH	Site: NBU 1022-2D		Rig name no.: GWS 1/1
Event: WELL WORK EXPENSE	Start date: 4/24/2015		End date: 4/28/2015
Active datum: RKB @4,993.00usft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
4/23/2015	7:00 - 10:00	3.00	MAINT	35	D	P		travel to location. Trip plunger. Rig up. Rih jar up on spring @ 8023 for 10mins. Rih jar up on tubbing stop @ 8023. pooh. Rig down. Ready for workover. Travel back to shop. Thank you.
4/24/2015	7:00 - 7:30	0.50	MAINT	48				MIRU
	7:30 - 17:24	9.90	MAINT	45	A	P		MIRU, BLOW DWN WELL, KILL WELL,10 BBLS TBG, 20 BBLS CSG, NDWH, NU BOP'S, TEST BOP'S, UNLAND, TIH TAG 8268', RU PRS, SCAN TBG OOH, TROUBLE CONTROLLING WELL, BLOW DWN, PUMP 30 BBLS DWN CSG 132 RED, 126 BLUE-YELLOW BAND,RD PRS, BTM 3 JTS FULL OF SAND
	17:24 - 17:00		MAINT	31	I	P		PU POBS, MILL, TIH 162 JTS, SWIFWE
4/27/2015	7:00 - 7:30	0.50	MAINT	48		P		TRIPPING
	7:30 - 11:00	3.50	MAINT	31	I	P		FLOWING OVER WE, 175# CSG, 550# TBG, WOULD,NOT BLOW DWN, KILLED TBG WITH 40 BBLS T-MAC, TIH TO TAG FILL, 8168'
	11:00 - 14:00	3.00	MAINT	44	D	P		RU WEATHERFORD, BREAK CIRC, ATTEMP TOC/O TO 8689' PBTD, TAG HARD AT 8268' POSSIBLY POBS.METAL SHAVINGS IN RTNS.
	14:00 - 17:30	3.50	MAINT	31	I	P		RD WEATHERFORD, RD PWR SWIVEL, POOH STD BACK 121 STDS, ND POBS, NU XNSN, NC, TIH IN AM. SWIFN
4/28/2015	7:00 - 7:30	0.50	MAINT	48		P		ND BOP'S
	7:30 - 12:00	4.50	MAINT	31	I	P		BLOW DWN WELL, KILL WELL WITH 20 BBLS T-MAC, PU XNSN, NC, 243 JTS TBG, TIH TO 7694', LAND TBG, ND BOP'S, NU WH, HOOK UP PROD LINE, RDMO
5/2/2015	7:00 - 17:00	10.00	PROD	42	B	P		Starting pressure Tb 180 PSI CA 590 PSI Started swabbing & Made 8 runs Fluid level was at 6000ft Recovered 30 bbl. Well tried to unload for a while and then it would die, went after again and it did this for a couple times, tried to send it down the sales a couple times but casing would start climbing and well would die. Shut well in for the day and headed back to the shop Ending Pressure Tb 10 PSI CA 530 PSI

RECEIVED: May. 19, 2015

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-2D	Spud Conductor: 1/17/2009	Spud date: 1/26/2009	
Project: UTAH-UINTAH	Site: NBU 1022-2D		Rig name no.: GWS 1/1
Event: WELL WORK EXPENSE	Start date: 4/24/2015		End date: 4/28/2015
Active datum: RKB @4,993.00usft (above Mean Sea Level)	UWI: 0/10/S/22/E/2/0/NWNW/6/PM/N/1,090.00/W/0/990.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
5/4/2015	7:00 - 17:00	10.00	PROD	42	B	P		Starting pressure Tb 240 PSI CA 560 PSI Started swabbing & Made 6 runs Fluid level was at 5900ft Recovered 30 bbl. Swabbed well back on, well unloaded for about an hour. Operator came and wanted to drop a scale knocker, so we did and started tripping it. Tripped 3 times & it was coming up on 30 minutes with the help of the bypass. Finally the last time well died. Shut well in and headed back to the shop. Ending Pressure Tb PSI CA 430 PSI
5/5/2015	7:00 - 17:00	10.00	PROD	42	B	P		Starting pressure Tb 230 PSI CA 520 PSI Started swabbing & Made 5 runs Fluid level was at 6000ft Recovered 24 bbl. Swabbed well back on, scale knocker came 4 times & still was taking from 20-25 minutes helping it with bypass. At the end I left it blowing to see if she will get better pressures but it didn't so shut well in & headed back to the shop. Ending Pressure Tb 30 PSI CA 410 PSI
5/6/2015	7:00 - 21:00	14.00	PROD	42		P		Swabbed well back on, scale knocker came, casing didn't want to drop very well so we left it blowing to tank for a while. Pressures looked better so we started tripping scale knocker, it was coming up on 25 minutes with the hep of bypass. Set well back to sales and headed back to the shop. FL 5500
5/7/2015	7:00 - 17:00	10.00	PROD	42	B	P		Starting pressure Tb 150 PSI CA 480 PSI Started swabbing & Made 1 run Fluid level was at 6700ft Recovered 26 bbl. Swabbed well back on, tripped scale knocker once. Pressures still didn't look good & it was taking 35 minutes or so. We put it through separator on open sales for over night & it was looking better. Called it a day & headed back to the shop. Ending Pressure Tb 120 PSI CA 390 PSI

RECEIVED: May. 19, 2015